



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or  
Recompletion Date

Date Reached TD

Completion Date or  
Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1063767

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	Clair 3-26
Doc ID	1063767

All Electric Logs Run

DEN
IND
MICRO
SON
SPECTRAL

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	Clair 3-26
Doc ID	1063767

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3312'-16'	500 gal of 28% MCA with 3% MAS	3312'-16'
4	3351'-53'	500 gal of 28% MCA with 3% MAS	3351'-53'
4	3416'-22'	400 gal of 28% MCA with 3% MAS	3416'-22'
4	3436'-44'	400 gal of 28% MCA with 3% MAS	3436'-44'
4	3451'-54'	400 gal of 28% MCA with 3% MAS	3451'-54'
4	3460'-72'	500 gal of 28% MCA with 3% MAS	3460'-72'

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

September 21, 2011

NEIL SHARP  
Samuel Gary Jr. & Associates, Inc.  
1515 WYNKOOP, STE 700  
DENVER, CO 80202

Re: ACO1  
API 15-165-21924-00-00  
Clair 3-26  
NE/4 Sec.26-16S-16W  
Rush County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office at 303-831-4673.

Respectfully,  
NEIL SHARP



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 6/6/2011  
 Invoice #  
 P.O.#:  
 Due Date: 7/6/2011  
 Division: Russell

# Invoice

**Contact:**

Samuel Gary Jr & Associates Inc  
 Address/Job Location:  
 Samuel Gary Jr & Associates Inc  
 3111 W. 10th Street  
 Great Bend, KS 67503

**Reference:**

CLAIR 3-26

**Description of Work:**  
 LONG SURFACE JOB

DRLG  COMP  W/O  LOE  GG

Account	8000-138
Well/Prospect	CLAIR 3-26
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 937.80	No				
Common-Class A	370	\$ 4,636.00	Yes	Baffle Plate Aluminum, 8 5/8"	1	\$92.43	Yes
8 5/8" Basket	3	\$ 973.62	Yes				
Bulk Truck Mat-Material Service Charge	390	\$ 801.08	No				
Calcium Chloride	13	\$ 502.81	Yes				
Pump Truck Mileage-Job to Nearest Camp	30	\$ 307.49	No				
8 5/8" Centralizer	3	\$ 197.19	Yes				
Flo Seal	92	\$ 188.97	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	30	\$ 179.94	No				
Premium Gel (Bentonite)	7	\$ 117.04	Yes				
8 5/8" Top Rubber Plug	1	\$ 108.86	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 9,043.24  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,356.49)

SubTotal for Taxable Items: \$ 5,794.39  
 SubTotal for Non-Taxable Items: \$ 1,892.36

6.30% Rush County Sales Tax

Total: \$ 7,686.75  
 Tax: \$ 365.05  
**Amount Due: \$ 8,051.80**  
**Applied Payments:**  
**Balance Due: \$ 8,051.80**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
 ©2008-2013 Straker Investments, LLC. All rights reserved.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5017

Date	6/11/11	Sec.	26	Twp.	16	Range	16	County	Rush	State	KS	On Location		Finish	6:15 AM
------	---------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	---------

Lease	Clair	Well No.	3-26	Location	Galatia, SW, Sinto
-------	-------	----------	------	----------	--------------------

Contractor	NAL Rig #6	Owner	
------------	------------	-------	--

Type Job	Surface	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
----------	---------	--	--

Hole Size	12 1/4" <del>12 1/2"</del>	T.D.	1077'	Charge To	Sam Gary Jr & Associates
-----------	----------------------------	------	-------	-----------	--------------------------

Csg.	8 5/8" 23#	Depth	1076'	Street	
------	------------	-------	-------	--------	--

Tbg. Size		Depth		City	
-----------	--	-------	--	------	--

Tool		Depth		State	
------	--	-------	--	-------	--

Cement Left in Csg.	42'	Shoe Joint	42'	The above was done to satisfaction and supervision of owner agent or contractor.	
---------------------	-----	------------	-----	--	--

Meas Line		Displace	66 Bbls.	Cement Amount Ordered	370srx Com 3% CC 2% gel
-----------	--	----------	----------	-----------------------	-------------------------

**EQUIPMENT**

Pumptrk	9	No.	Cementer	Paul	Common	370
			Helper			

Bulktrk	12	No.	Driver	Neale	Poz. Mix	
			Driver			

Bulktrk	PV	No.	Driver	Cory	Gel.	7
			Driver			

**JOB SERVICES & REMARKS**

Remarks:		Hulls	
----------	--	-------	--

Rat Hole		Salt	
----------	--	------	--

Mouse Hole		Flowseal	92#
------------	--	----------	-----

Centralizers	1, 14, 23	Kol-Seal	
--------------	-----------	----------	--

Baskets	2, 15, 24	Mud CLR 48	
---------	-----------	------------	--

D/V or Port Collar		CFL-117 or CD110 CAF 38	
--------------------	--	-------------------------	--

Est. Cir.		Sand	
-----------	--	------	--

Mix	370srx	Handling	390
-----	--------	----------	-----

Displace		Mileage	45#
----------	--	---------	-----

Land Plug		<b>FLOAT EQUIPMENT</b>	
-----------	--	------------------------	--

Cement Circulated		Guide Shoe	
-------------------	--	------------	--

		Centralizer	3
--	--	-------------	---

		Baskets	3
--	--	---------	---

		AFU Inserts	
--	--	-------------	--

		Float Shoe	
--	--	------------	--

		Latch Down	
--	--	------------	--

		Butt Plate, Rubber Plug	
--	--	-------------------------	--

		Head + manifold	
--	--	-----------------	--

		Pumptrk Charge	Long Surface
--	--	----------------	--------------

		Mileage	30
--	--	---------	----

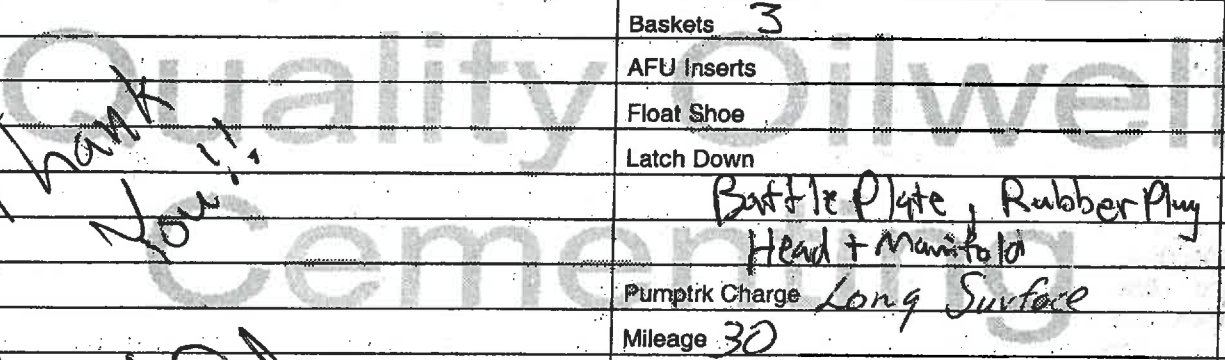
		Tax	
--	--	-----	--

		Discount	
--	--	----------	--

		Total Charge	
--	--	--------------	--

X Signature	<i>[Signature]</i>		
-------------	--------------------	--	--

Thank You!!





**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraitel.net

Date: 6/22/2011  
 Invoice # 4849

P.O.#:

Due Date: 7/22/2011

Division: Russell

**Invoice**

*1107-AP-70 7/14*

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 3111 W. 10th Street  
 Great Bend, KS 67503

**Reference:**  
 CLAIR 3-26

**Description of Work:**  
 PROD LONG STRING

DRLG  COMP  W/O  LOE  GG

Account	8300-238
Well/Prospect	CLAIR 3-26
Deck	
AFE	<i>[Signature]</i>
Approval	<i>[Signature]</i>
Description	

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 925.29	No	Pump Truck Mileage-Job to Nearest Camp	30	\$303.39	No
Common-Class A	225	\$ 2,781.60	Yes	Salt (Fine)	19	\$268.78	Yes
Gilsonite	1057	\$ 1,606.64	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$226.99	Yes
CFL 117	176	\$ 1,098.62	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	30	\$177.54	No
5 1/2" Basket	3	\$ 699.20	Yes	Flo Seal	56	\$113.49	Yes
CD-110	117	\$ 474.24	Yes	KCL	2	\$60.52	Yes
5 1/2" Turbolizer	8	\$ 470.19	Yes				
Bulk Truck Matl-Material Service Charge	225	\$ 456.00	No				
Mud Clear	500	\$ 374.93	Yes				
Defoamer A or CAF-38	50	\$ 354.67	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 310.08	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 10,702.16  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,605.32)

SubTotal for Taxable Items:	\$ 7,513.94
SubTotal for Non-Taxable Items:	\$ 1,582.89
Total:	\$ 9,096.83
Tax:	\$ 473.38

6.30% Rush County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 9,570.21**  
**Applied Payments:**  
**Balance Due: \$ 9,570.21**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
 ©2008-2013 Straker Investments, LLC. All rights reserved.

**RECEIVED**

**JUL 01 2011**

**SAMUEL GARY JR. & ASSOCIATES, INC.**



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4849

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-9-11	26	16	16	Rush	KS		11:45 A.M.
Lease Clair	Well No. 3-26		Location Galatia 5 1/2 W				
Contractor Val #16				Owner			
Type Job Production String				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 7 7/8	T.D. 3650		Charge To Sam Lead Fr & Assoc.				
Csg. 5 1/2 15.50	Depth 3625		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. 22.57	Shoe Joint 22.57		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace 85 3/4 BCL		Cement Amount Ordered 225 Apric 10% Salt, 5# Gilsenite				
<b>EQUIPMENT</b>				1/4# Ho 3% CPIO 8% CFL, 25% CAF 38			
Pumptrk 9 No. Cementer Craig	Helper		Common 225 Apric				
Bulktrk No. Driver Wade	Driver		Poz. Mix				
Bulktrk 3 No. Driver Cory	Driver		Gel.				
<b>JOB SERVICES &amp; REMARKS</b>				Calcium CD-110 117A			
Remarks:				Hulls 2600 KCL			
Rat Hole 20SK				Salt 19			
Mouse Hole 15SK				Flowseal 56#			
Centralizers				Kol-Seal 1057#			
Baskets				Mud CLR 48 500 gal			
D/V or Port Collar				CFL-117 or CD110 CAF 38 50#			
5 1/2 set @ 3625 Junc @ 3602				Sand CFL 117 176#			
Est. Circulation: Pump 500 gal mud clear				Handling			
+ 100K water behind plug for holes				Mileage			
mouse hole. Cement 5 1/2 with 180SK				<b>FLOAT EQUIPMENT</b>			
Clearline. Displace plug with KCL				Guide Shoe 5 1/2			
Plug lower @ 1500#				Centralizer Turbo 8			
Release Pressure Day				Baskets 3			
				AFU Inserts			
				Float Shoe 1			
				Latch Down 1			
				Pumptrk Charge prod long string			
				Mileage 30			
X Signature				Tax			
				Discount			
				Total Charge			



## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

ATTN: Neil Sharp

**26-16-16 Rush, Ks**

**Clair 3-26**

Start Date: 2011.06.04 @ 17:29:21

End Date: 2011.06.05 @ 01:03:51

Job Ticket #: 43401                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43401

**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

## GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:51

Time Test Ended: 01:03:51

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3250.00 ft (KB) To 3311.00 ft (KB) (TVD)**

Reference Elevations: 1986.00 ft (KB)

Total Depth: 3311.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 68.86 psig @ 3256.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.04

End Date:

2011.06.05

Last Calib.:

2011.06.05

Start Time:

17:29:22

End Time:

01:03:51

Time On Btm:

2011.06.04 @ 19:03:21

Time Off Btm:

2011.06.04 @ 23:16:51

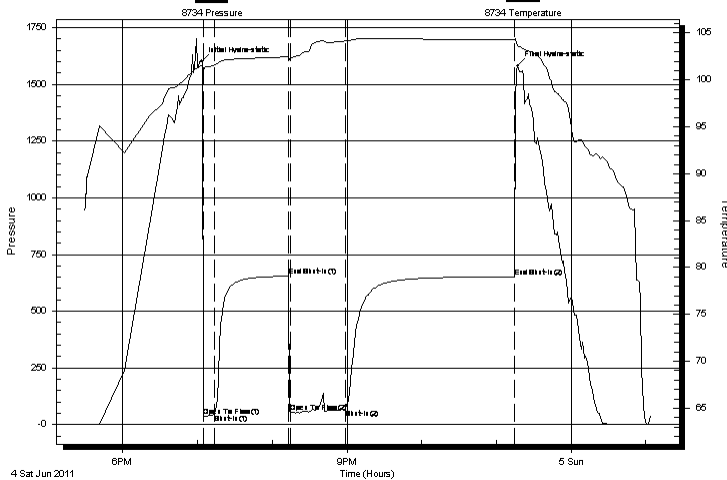
**TEST COMMENT:** 10 - IFP - weak blow throughout sur - 1"

60 - ISI - no blow back

45 - FFP - no blow 4 min - 6"

135 - FSI - no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.52	101.51	Initial Hydro-static
2	35.14	100.96	Open To Flow (1)
11	43.98	101.58	Shut-In(1)
70	654.53	102.47	End Shut-In(1)
71	52.52	102.31	Open To Flow (2)
116	68.86	104.17	Shut-In(2)
251	652.57	104.28	End Shut-In(2)
254	1580.47	103.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MUD 100%	0.91

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

ATTN: Neil Sharp

Job Ticket: 43401

**DST#: 1**

Test Start: 2011.06.04 @ 17:29:21

**GENERAL INFORMATION:**

Formation: **LKC "A-C"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 19:04:51

Time Test Ended: 01:03:51

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

**Interval: 3250.00 ft (KB) To 3311.00 ft (KB) (TVD)**

Reference Elevations: **1986.00 ft (KB)**

Total Depth: **3311.00 ft (KB) (TVD)**

**1976.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **10.00 ft**

**Serial #: 8365**

**Fluid**

Press @ Run Depth: **psig @ 3215.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.06.04**

End Date:

**2011.06.05**

Last Calib.:

**2011.06.05**

Start Time: **17:29:30**

End Time:

**01:03:59**

Time On Btm:

Time Off Btm:

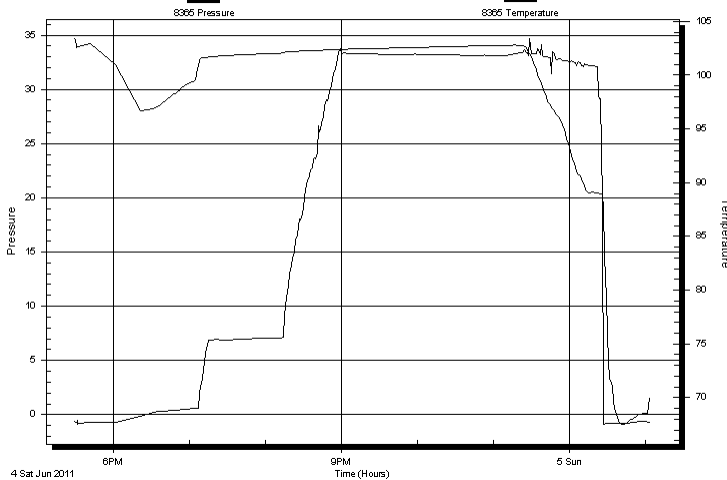
**TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"**

**60 - ISI - no blow back**

**45 - FFP - no blow 4 min - 6"**

**135 - FSI - no blow back**

**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	MUD 100%	0.91

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43401

**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

## Tool Information

Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3250.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Recorder	0.00	8365	Fluid	3215.00	
Blank Spacing	5.00			3220.00	
Shut In Tool	5.00			3225.00	
Sampler	3.00			3228.00	
Hydraulic tool	5.00			3233.00	
Jars	5.00			3238.00	
Safety Joint	2.00			3240.00	
Packer	5.00			3245.00	35.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	4.00			3255.00	
Change Over Sub	1.00			3256.00	
Recorder	0.00	8372	Inside	3256.00	
Recorder	0.00	8734	Outside	3256.00	
Blank Spacing	31.00			3287.00	
Change Over Sub	1.00			3288.00	
Perforations	20.00			3308.00	
Bullnose	3.00			3311.00	61.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43401

**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MUD 100%	0.912

Total Length: 65.00 ft      Total Volume: 0.912 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: 4000 ml mud 215 lbs



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43401

**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

### Gas Rates Information

Temperature: 59 deg C

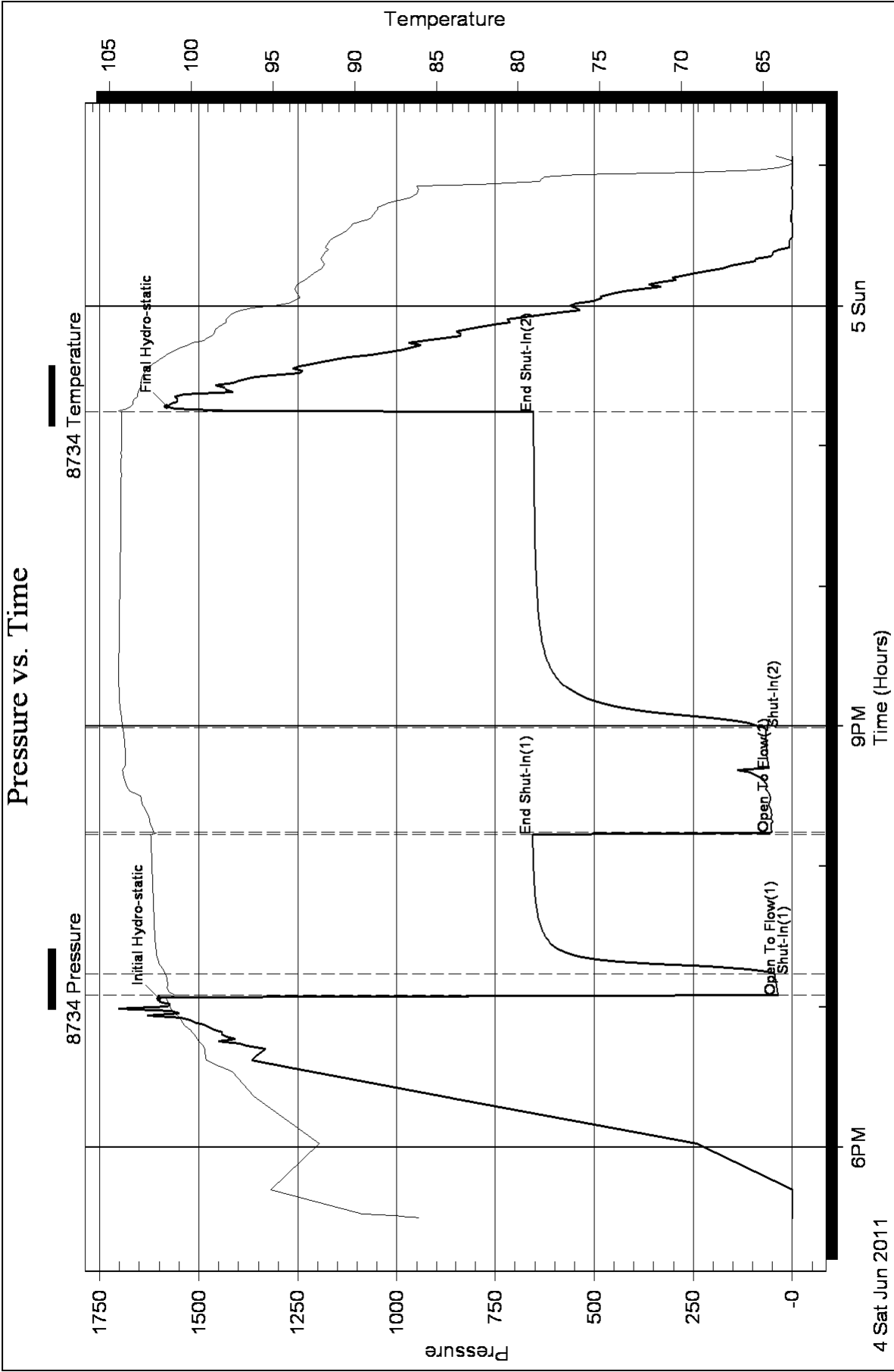
Relative Density: 0.65

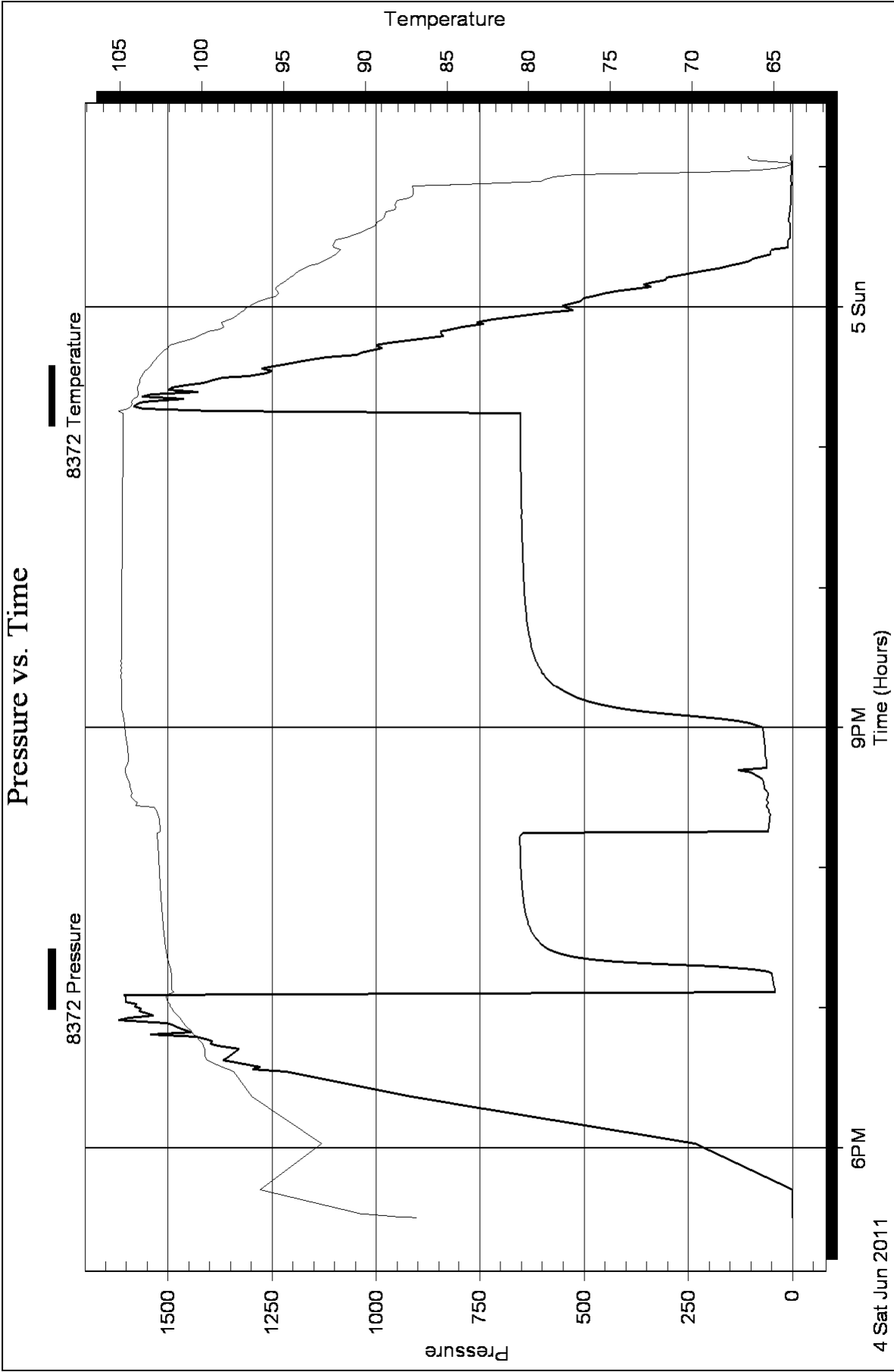
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
		0.00	0.00	0.00







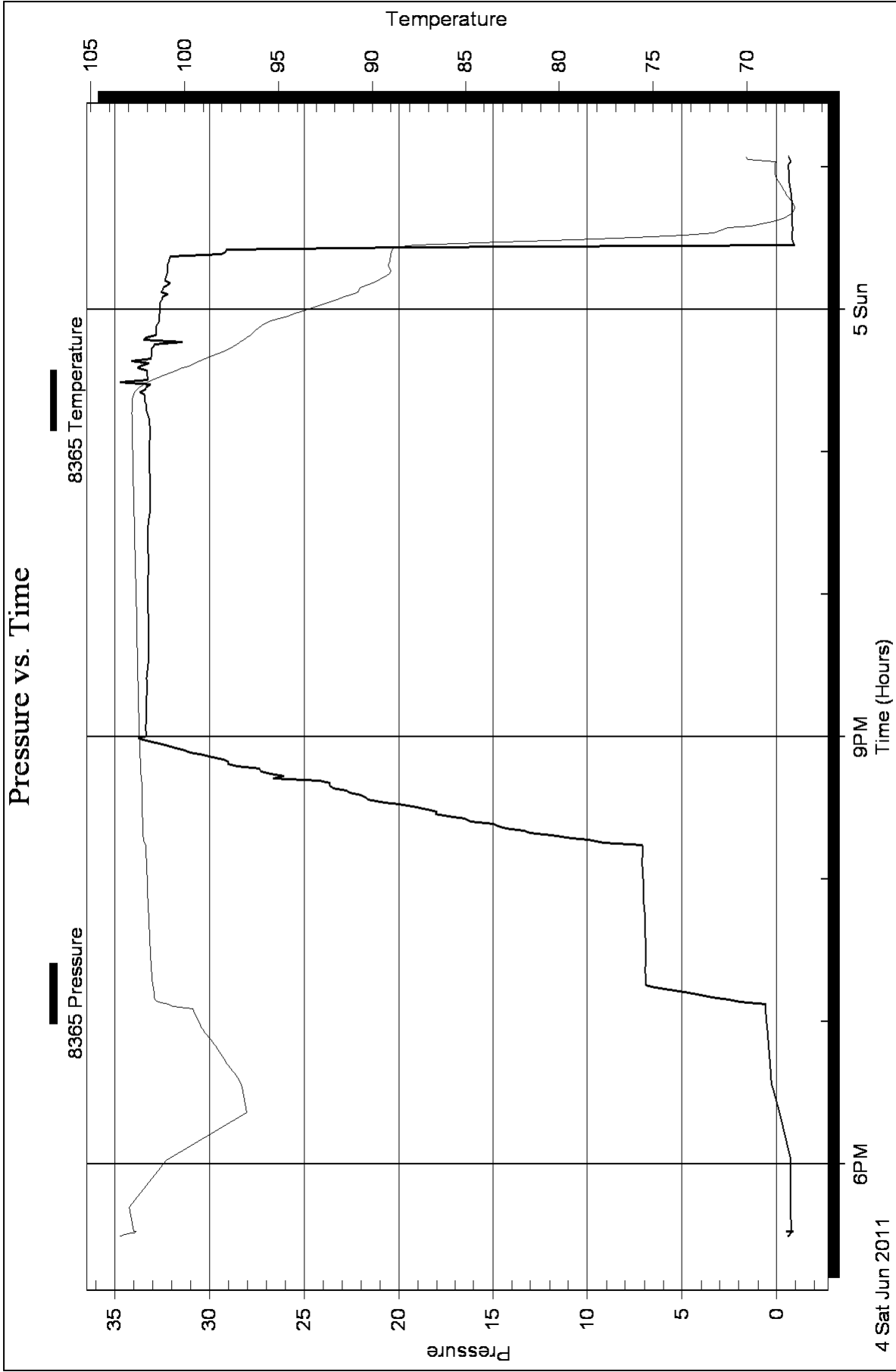
Serial #: 8365

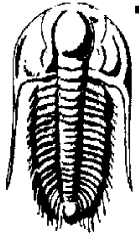
Fluid

Samuel Gary Jr. and Associates, Inc.

26-16-16 Rush, Ks

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43401

**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.64	86.1		1.6	-0.75	89.2
	0.1	-0.60	86.1		1.7	-0.76	89.3
	0.1	-0.63	86.1		1.8	-0.76	89.4
	0.2	-0.60	86.2		1.8	-0.76	89.4
	0.2	-0.61	86.2		1.9	-0.77	89.5
	0.3	-0.61	86.3		1.9	-0.75	89.6
	0.3	-0.60	86.4		2.0	-0.74	89.7
	0.3	-0.59	86.5		12.0	-0.74	95.1
	0.4	-0.58	86.6		42.0	543.46	93.6
	0.4	-0.59	86.7		62.5	1216.40	97.5
	0.5	-0.59	86.8		64.0	1320.19	98.0
	0.6	-0.59	86.8		65.5	1307.25	98.5
	0.6	-0.61	86.9		67.0	1345.87	98.8
	0.6	-0.61	87.0		68.5	1360.75	99.1
	0.7	-0.61	87.1		70.0	1350.08	99.1
	0.8	-0.62	87.2		71.5	1339.37	99.2
	0.8	-0.62	87.3		73.0	1382.84	99.2
	0.9	-0.63	87.4		74.5	1397.44	99.4
	0.9	-0.62	87.4		76.0	1411.22	99.6
	0.9	-0.61	87.5		77.5	1430.18	99.7
	1.0	-0.62	87.7		79.0	1443.98	99.9
	1.0	-0.62	87.8		80.5	1459.09	100.1
	1.1	-0.63	87.9		82.0	1489.00	100.3
	1.1	-0.66	88.0		83.5	1505.45	100.5
	1.2	-0.67	88.2		85.0	1520.83	100.6
	1.3	-0.68	88.3		86.5	1629.75	100.8
	1.3	-0.68	88.4		88.0	1632.67	101.0
	1.4	-0.69	88.5		89.5	1702.24	101.2
	1.4	-0.70	88.6		91.0	1576.19	101.3
	1.5	-0.69	88.8		92.5	1599.55	101.4
	1.5	-0.73	88.9		93.0	1598.85	101.5
	1.5	-0.73	89.0		93.5	1597.99	101.5
	1.6	-0.74	89.1	Initial Hydro-static	94.0	1600.52	101.5

Printing every 3 samples

Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
Open To Flow (1)	94.5	1598.79	101.5		145.0	651.18	102.4
	95.0	1600.74	101.5		146.5	651.63	102.4
	95.5	35.14	101.0		148.0	651.95	102.4
	96.0	36.30	101.2		149.5	652.34	102.4
	96.5	36.41	101.3		151.0	652.59	102.4
	97.0	36.37	101.4		152.5	652.92	102.4
	98.5	38.32	101.4		154.0	653.27	102.4
	100.0	40.11	101.4		155.5	653.30	102.4
	101.5	41.36	101.5		157.0	653.68	102.4
	103.0	43.46	101.5		158.5	653.90	102.4
	103.5	43.69	101.5		160.0	654.30	102.4
Shut-In(1)	104.0	43.76	101.6		161.5	654.40	102.5
	104.5	43.98	101.6		163.0	654.48	102.5
	105.0	49.28	101.6		163.5	654.53	102.5
	105.5	62.78	101.7	End Shut-In(1)	164.0	654.53	102.5
	106.0	81.61	101.7		164.5	59.56	102.2
	107.5	213.01	101.8	Open To Flow (2)	165.0	52.52	102.3
	109.0	397.57	102.0		165.5	50.79	102.3
	110.5	494.24	102.0		167.0	51.78	102.4
	112.0	542.96	102.1		168.5	55.04	102.5
	113.5	571.61	102.1		170.0	48.15	102.5
	115.0	590.02	102.2		171.5	55.04	102.6
	116.5	603.05	102.2		173.0	54.29	102.7
	118.0	612.58	102.2		174.5	52.43	102.8
	119.5	619.82	102.2		176.0	58.13	102.9
	121.0	625.48	102.2		177.5	57.52	103.0
	122.5	629.84	102.2		179.0	61.24	103.0
	124.0	633.38	102.2		180.5	56.70	103.1
	125.5	636.31	102.3		182.0	59.15	103.6
	127.0	638.66	102.3		183.5	68.10	103.9
	128.5	641.05	102.3		185.0	63.52	104.0
	130.0	642.67	102.3		186.5	69.94	104.0
	131.5	644.18	102.3		188.0	74.55	104.1
	133.0	645.22	102.3		189.5	93.99	104.1
	134.5	646.28	102.3		191.0	121.21	104.2
	136.0	647.38	102.3		192.5	58.11	104.1
	137.5	648.15	102.3		194.0	61.20	104.0
	139.0	648.79	102.3		195.5	61.30	104.0
	140.5	649.50	102.3		197.0	62.63	104.0
	142.0	650.20	102.3		198.5	63.10	104.0
	143.5	650.55	102.4		200.0	63.02	104.0

Printing every 3 samples

Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	201.5	63.87	104.1		257.5	639.31	104.4
	203.0	64.50	104.1		259.0	640.20	104.4
	204.5	65.19	104.1		260.5	640.87	104.4
	206.0	65.65	104.1		262.0	641.53	104.4
	207.5	66.20	104.1		263.5	642.13	104.4
	208.5	66.76	104.1		265.0	642.74	104.4
	209.0	66.86	104.2		266.5	643.37	104.4
Shut-In(2)	209.5	68.86	104.2		268.0	643.62	104.4
	210.0	76.98	104.2		269.5	644.12	104.4
	210.5	86.01	104.2		271.0	644.74	104.4
	211.0	96.59	104.2		272.5	645.22	104.4
	212.5	141.64	104.2		274.0	645.43	104.3
	214.0	217.18	104.3		275.5	645.83	104.3
	215.5	310.11	104.3		277.0	646.17	104.3
	217.0	385.10	104.3		278.5	646.52	104.3
	218.5	436.73	104.4		280.0	646.83	104.3
	220.0	474.69	104.4		281.5	647.18	104.3
	221.5	503.90	104.4		283.0	647.24	104.3
	223.0	527.01	104.4		284.5	647.64	104.3
	224.5	545.38	104.4		286.0	647.82	104.3
	226.0	560.24	104.4		287.5	648.07	104.3
	227.5	572.66	104.4		289.0	648.38	104.3
	229.0	582.49	104.4		290.5	648.44	104.3
	230.5	590.77	104.4		292.0	649.08	104.3
	232.0	597.80	104.4		293.5	648.91	104.3
	233.5	603.69	104.4		295.0	648.98	104.3
	235.0	608.78	104.4		296.5	649.23	104.3
	236.5	613.10	104.4		298.0	649.36	104.3
	238.0	616.72	104.4		299.5	649.58	104.3
	239.5	619.89	104.4		301.0	649.76	104.3
	241.0	622.67	104.4		302.5	650.23	104.3
	242.5	625.23	104.4		304.0	649.99	104.3
	244.0	627.48	104.4		305.5	650.51	104.3
	245.5	629.39	104.4		307.0	650.33	104.3
	247.0	631.04	104.4		308.5	650.74	104.3
	248.5	632.63	104.4		310.0	650.84	104.3
	250.0	634.03	104.4		311.5	650.93	104.3
	251.5	635.29	104.4		313.0	651.01	104.3
	253.0	636.58	104.4		314.5	651.10	104.3
	254.5	637.45	104.4		316.0	651.21	104.3
	256.0	638.50	104.4		317.5	651.01	104.3

Printing every 3 samples

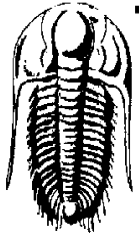
Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	319.0	651.42	104.3		370.0	1080.36	101.4
	320.5	651.52	104.3		371.5	993.89	101.0
	322.0	651.60	104.3		373.0	1003.10	100.4
	323.5	651.67	104.3		374.5	970.88	99.9
	325.0	651.74	104.3		376.0	869.56	99.1
	326.5	651.81	104.3		377.5	839.25	98.7
	328.0	651.90	104.3		379.0	847.07	98.6
	329.5	651.99	104.3		380.5	818.71	98.5
	331.0	652.06	104.3		382.0	788.34	98.2
	332.5	652.15	104.3		383.5	712.96	97.9
	334.0	652.21	104.3		385.0	675.72	97.8
	335.5	652.26	104.3		386.5	631.37	97.6
	337.0	652.33	104.3		388.0	586.08	97.3
	338.5	652.40	104.3		389.5	545.04	96.3
	340.0	652.44	104.3		391.0	573.94	94.4
	341.5	652.48	104.3		392.5	503.81	93.8
	343.0	652.50	104.3		394.0	484.36	93.3
	344.0	652.54	104.3		395.5	454.07	93.5
	344.5	652.59	104.3		397.0	396.48	93.6
End Shut-In(2)	345.0	652.57	104.3		398.5	331.45	93.6
	345.5	1416.69	104.4		400.0	337.32	93.4
	346.0	1477.06	104.1		401.5	293.63	93.1
	346.5	1561.99	103.9		403.0	272.46	92.8
	347.0	1589.36	103.8		404.5	242.97	92.5
Final Hydro-static	347.5	1580.47	103.7		406.0	195.53	92.2
	348.0	1573.83	103.7		407.5	152.81	91.9
	348.5	1569.19	103.6		409.0	122.51	92.0
	349.0	1561.90	103.6		410.5	91.83	92.1
	350.5	1554.00	103.5		412.0	48.44	92.0
	352.0	1528.61	103.3		413.5	48.41	91.8
	353.5	1413.50	103.2		415.0	5.40	91.7
	355.0	1492.45	103.2		416.5	5.98	91.7
	356.5	1457.47	103.1		418.0	6.02	91.5
	358.0	1330.99	103.0		419.5	-0.21	91.3
	359.5	1368.93	103.0		421.0	-0.34	90.9
	361.0	1337.67	102.9		422.5	-0.45	90.5
	362.5	1238.59	102.8		424.0	-0.46	90.3
	364.0	1248.58	102.6		425.5	-0.48	90.1
	365.5	1215.69	102.4		427.0	3.23	89.4
	367.0	1125.97	102.0		428.5	3.12	89.0
	368.5	1122.88	101.7		430.0	2.46	88.8

Printing every 3 samples

<b>Serial # 8734 Outside</b>				<b>Serial # 8372 Inside</b>			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	431.5	0.38	88.6				
	433.0	1.22	88.6				
	434.5	-0.70	87.9				
	436.0	-0.58	86.9				
	437.5	-0.44	86.4				
	439.0	-0.84	86.2				
	440.5	-0.17	86.1				
	442.0	-0.05	86.2				
	443.5	-0.59	78.7				
	445.0	-0.57	78.7				
	446.5	-0.66	76.3				
	448.0	-0.58	66.9				
	449.5	-0.63	64.1				
	451.0	-0.71	63.4				
	452.5	-0.49	63.3				
	454.0	-0.29	63.8				
	454.5	-0.27	64.3				

Printing every 3 samples





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TESTING - DATA LISTING**

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43401

**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

<b>Serial # 8372 Inside</b>				<b>Serial # 8372 Inside</b>			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.05	86.9		1.6	0.16	89.9
	0.1	-0.12	87.0		1.7	0.16	90.0
	0.1	-0.08	87.0		1.8	0.18	90.1
	0.2	-0.07	87.1		1.8	0.22	90.1
	0.2	-0.05	87.1		1.9	0.24	90.2
	0.3	-0.01	87.1		1.9	0.27	90.3
	0.3	0.01	87.2		2.0	0.29	90.4
	0.3	0.01	87.3		12.0	0.40	96.4
	0.4	0.00	87.4		42.0	543.17	94.2
	0.4	-0.01	87.5		62.5	1217.89	98.1
	0.5	-0.02	87.7		64.0	1244.28	98.6
	0.6	-0.02	87.9		65.5	1306.77	99.0
	0.6	-0.01	88.1		67.0	1440.42	99.4
	0.6	-0.01	88.3		68.5	1359.45	99.8
	0.7	0.00	88.4		70.0	1348.29	99.8
	0.8	0.00	88.5		71.5	1337.19	99.8
	0.8	0.02	88.6		73.0	1453.31	99.9
	0.9	0.03	88.7		74.5	1399.11	100.0
	0.9	0.04	88.8		76.0	1411.85	100.1
	0.9	0.05	88.8		77.5	1430.69	100.3
	1.0	0.05	88.9		79.0	1446.07	100.5
	1.0	0.06	89.0		80.5	1460.45	100.7
	1.1	0.06	89.1		82.0	1575.86	101.0
	1.1	0.07	89.2		83.5	1506.64	101.1
	1.2	0.08	89.3		85.0	1522.76	101.3
	1.3	0.08	89.3		86.5	1535.47	101.4
	1.3	0.10	89.4		88.0	1548.94	101.7
	1.4	0.09	89.5		89.5	1564.26	101.8
	1.4	0.09	89.6		91.0	1578.38	101.9
	1.5	0.11	89.6		92.5	1603.15	102.1
	1.5	0.12	89.7		94.0	1602.01	102.2
	1.5	0.13	89.8		95.5	1606.24	102.2
	1.6	0.14	89.9		97.0	41.05	101.8

Printing every 3 samples

Serial # 8372 Inside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	43.18	101.9		160.0	653.02	102.7
	100.0	45.20	101.9		161.5	653.11	102.7
	101.5	46.16	101.9		163.0	653.14	102.7
	103.0	48.43	101.9		164.5	647.03	102.7
	104.5	48.98	101.9		166.0	57.10	102.5
	106.0	72.03	101.9		167.5	55.87	102.5
	107.5	187.51	101.9		169.0	57.21	102.6
	109.0	378.00	102.0		170.5	54.09	102.6
	110.5	482.89	102.1		172.0	53.66	102.6
	112.0	535.02	102.1		173.5	56.53	102.7
	113.5	565.15	102.1		175.0	58.09	102.8
	115.0	584.54	102.2		176.5	63.07	104.0
	116.5	598.05	102.2		178.0	61.69	104.0
	118.0	608.11	102.2		179.5	60.61	104.2
	119.5	615.50	102.3		181.0	60.47	104.4
	121.0	621.33	102.3		182.5	62.00	104.3
	122.5	625.99	102.3		184.0	67.55	104.4
	124.0	629.67	102.3		185.5	69.07	104.4
	125.5	632.73	102.4		187.0	73.82	104.4
	127.0	635.51	102.4		188.5	79.14	104.6
	128.5	637.65	102.4		190.0	94.96	104.6
	130.0	639.60	102.4		191.5	129.99	104.7
	131.5	641.14	102.4		193.0	61.45	104.6
	133.0	642.62	102.4		194.5	61.77	104.5
	134.5	643.91	102.5		196.0	62.97	104.5
	136.0	645.04	102.5		197.5	64.33	104.5
	137.5	645.86	102.5		199.0	64.76	104.5
	139.0	646.83	102.5		200.5	65.08	104.5
	140.5	647.48	102.5		202.0	66.18	104.6
	142.0	648.32	102.5		203.5	66.66	104.6
	143.5	648.95	102.5		205.0	67.51	104.6
	145.0	649.52	102.6		206.5	68.46	104.6
	146.5	650.04	102.6		208.0	69.31	104.7
	148.0	650.51	102.6		209.5	70.01	104.7
	149.5	650.93	102.6		211.0	90.87	104.7
	151.0	651.36	102.6		212.5	132.88	104.7
	152.5	651.69	102.6		214.0	204.59	104.8
	154.0	651.83	102.6		215.5	297.78	104.8
	155.5	652.05	102.6		217.0	375.29	104.9
	157.0	652.40	102.7		218.5	428.50	104.9
	158.5	652.52	102.7		220.0	467.67	104.9

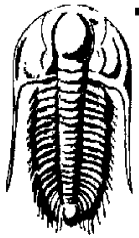
Printing every 3 samples

Serial # 8372 Inside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	497.60	104.9		283.0	646.36	104.9
	223.0	521.33	104.9		284.5	646.63	104.9
	224.5	540.15	104.9		286.0	646.87	104.9
	226.0	555.34	104.9		287.5	647.07	104.9
	227.5	568.00	104.9		289.0	647.40	104.9
	229.0	578.22	104.9		290.5	647.60	104.8
	230.5	586.69	104.9		292.0	647.84	104.8
	232.0	593.85	104.9		293.5	647.98	104.8
	233.5	599.99	104.9		295.0	648.12	104.8
	235.0	605.21	104.9		296.5	648.30	104.8
	236.5	609.86	104.9		298.0	648.46	104.8
	238.0	613.67	104.9		299.5	649.10	104.8
	239.5	617.01	104.9		301.0	649.24	104.8
	241.0	619.80	104.9		302.5	649.05	104.8
	242.5	622.43	104.9		304.0	649.19	104.8
	244.0	624.77	104.9		305.5	649.28	104.8
	245.5	626.86	104.9		307.0	649.44	104.8
	247.0	628.61	104.9		308.5	649.59	104.8
	248.5	630.40	104.9		310.0	649.73	104.8
	250.0	631.85	104.9		311.5	649.85	104.8
	251.5	633.18	104.9		313.0	650.32	104.8
	253.0	634.54	104.9		314.5	650.42	104.8
	254.5	635.76	104.9		316.0	650.53	104.8
	256.0	636.97	104.9		317.5	650.64	104.8
	257.5	637.60	104.9		319.0	650.75	104.8
	259.0	638.44	104.9		320.5	650.86	104.8
	260.5	639.25	104.9		322.0	650.98	104.8
	262.0	640.00	104.9		323.5	651.10	104.8
	263.5	640.79	104.9		325.0	651.23	104.8
	265.0	641.44	104.9		326.5	651.04	104.8
	266.5	641.92	104.9		328.0	651.20	104.8
	268.0	642.47	104.9		329.5	651.31	104.8
	269.5	643.01	104.9		331.0	651.77	104.8
	271.0	643.51	104.9		332.5	651.87	104.8
	272.5	643.90	104.9		334.0	651.96	104.8
	274.0	644.26	104.9		335.5	652.03	104.8
	275.5	644.71	104.9		337.0	652.10	104.8
	277.0	645.02	104.9		338.5	652.18	104.8
	278.5	645.42	104.9		340.0	652.22	104.8
	280.0	645.74	104.9		341.5	652.26	104.8
	281.5	646.10	104.9		343.0	652.31	104.8

Printing every 3 samples

Serial # 8372 Inside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	652.36	104.8		406.0	213.12	94.0
	346.0	1469.34	104.6		407.5	151.25	93.4
	347.5	1581.76	104.3		409.0	123.61	92.7
	349.0	1564.34	104.3		410.5	95.54	92.2
	350.5	1463.15	104.2		412.0	53.51	91.9
	352.0	1401.12	103.8		413.5	53.13	91.7
	353.5	1428.16	103.9		415.0	11.51	91.5
	355.0	1496.74	103.9		416.5	11.05	92.0
	356.5	1456.82	103.9		418.0	11.09	91.8
	358.0	1345.11	103.7		419.5	4.77	91.1
	359.5	1368.92	103.7		421.0	4.72	90.5
	361.0	1339.10	103.6		422.5	4.78	90.1
	362.5	1249.22	103.5		424.0	4.82	89.6
	364.0	1235.83	103.2		425.5	4.78	89.3
	365.5	1215.84	103.1		427.0	8.25	89.1
	367.0	1155.66	102.9		428.5	7.77	88.9
	368.5	1118.03	102.7		430.0	7.46	88.8
	370.0	1077.78	102.5		431.5	5.26	88.2
	371.5	1012.35	102.3		433.0	4.38	88.2
	373.0	1003.64	102.0		434.5	3.94	88.1
	374.5	969.77	101.5		436.0	3.95	87.7
	376.0	869.90	100.6		437.5	4.02	87.1
	377.5	839.49	100.2		439.0	4.15	87.1
	379.0	844.96	99.7		440.5	3.97	87.1
	380.5	817.07	98.9		442.0	4.41	87.1
	382.0	790.05	98.8		443.5	3.38	79.2
	383.5	757.14	98.8		445.0	3.85	78.9
	385.0	673.87	98.1		446.5	3.78	77.2
	386.5	631.40	97.8		448.0	0.55	67.2
	388.0	585.31	97.5		449.5	1.11	64.6
	389.5	541.50	97.3		451.0	1.78	64.0
	391.0	572.58	96.9		452.5	3.12	66.3
	392.5	507.31	96.5		454.0	3.19	66.5
	394.0	484.63	95.6		454.5	3.23	66.6
	395.5	453.75	95.3				
	397.0	425.11	95.4				
	398.5	339.06	95.4				
	400.0	327.04	95.1				
	401.5	304.71	94.8				
	403.0	266.84	94.5				
	404.5	243.89	94.3				

Printing every 3 samples



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43401

**DST#: 1**

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

Serial # 8365 Fluid				Serial # 8365 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.62	103.4		1.6	-0.77	102.6
	0.1	-0.60	103.4		1.7	-0.76	102.6
	0.1	-0.64	103.4		1.8	-0.76	102.6
	0.2	-0.64	103.3		1.8	-0.77	102.6
	0.2	-0.64	103.3		1.9	-0.70	102.6
	0.3	-0.65	103.3		1.9	-0.49	102.7
	0.3	-0.66	103.3		2.0	-0.80	102.7
	0.3	-0.67	103.2		12.0	-0.73	103.0
	0.4	-0.69	103.2		42.0	-0.42	97.6
	0.4	-0.69	103.2		62.5	0.23	96.9
	0.5	-0.69	103.2		64.0	0.25	97.0
	0.6	-0.69	103.2		65.5	0.28	97.1
	0.6	-0.70	103.1		67.0	0.31	97.2
	0.6	-0.70	103.1		68.5	0.30	97.4
	0.7	-0.72	103.1		70.0	0.32	97.5
	0.8	-0.72	103.1		71.5	0.33	97.6
	0.8	-0.71	103.0		73.0	0.35	97.8
	0.9	-0.71	103.0		74.5	0.36	97.9
	0.9	-0.70	103.0		76.0	0.37	98.0
	0.9	-0.71	103.0		77.5	0.39	98.2
	1.0	-0.71	103.0		79.0	0.41	98.3
	1.0	-0.71	102.9		80.5	0.42	98.4
	1.1	-0.72	102.9		82.0	0.44	98.6
	1.1	-0.71	102.9		83.5	0.46	98.7
	1.2	-0.72	102.9		85.0	0.48	98.9
	1.3	-0.73	102.9		86.5	0.48	99.0
	1.3	-0.74	102.8		88.0	0.50	99.1
	1.4	-0.75	102.7		89.5	0.52	99.2
	1.4	-0.76	102.7		91.0	0.54	99.3
	1.5	-0.76	102.6		92.5	0.55	99.4
	1.5	-0.77	102.6		94.0	0.57	99.5
	1.5	-0.76	102.6		95.5	0.59	99.6
	1.6	-0.77	102.6		97.0	0.58	100.7

Printing every 3 samples

Serial # 8365				Serial # 8365			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	1.95	101.4		160.0	7.08	102.0
	100.0	2.90	101.6		161.5	7.08	102.0
	101.5	4.21	101.6		163.0	7.06	102.1
	103.0	5.34	101.6		164.5	7.11	102.1
	104.5	6.41	101.7		166.0	9.80	102.2
	106.0	6.89	101.7		167.5	10.84	102.2
	107.5	6.89	101.7		169.0	12.12	102.2
	109.0	6.90	101.7		170.5	13.33	102.2
	110.5	6.92	101.8		172.0	14.55	102.2
	112.0	6.92	101.8		173.5	14.95	102.2
	113.5	6.91	101.8		175.0	16.28	102.2
	115.0	6.90	101.8		176.5	17.37	102.2
	116.5	6.90	101.8		178.0	18.09	102.2
	118.0	6.89	101.8		179.5	18.49	102.3
	119.5	6.89	101.8		181.0	19.51	102.3
	121.0	6.89	101.8		182.5	20.75	102.3
	122.5	6.90	101.8		184.0	21.11	102.3
	124.0	6.91	101.9		185.5	21.99	102.3
	125.5	6.92	101.9		187.0	22.67	102.3
	127.0	6.92	101.9		188.5	23.46	102.3
	128.5	6.94	101.9		190.0	23.55	102.3
	130.0	6.95	101.9		191.5	24.20	102.3
	131.5	6.95	101.9		193.0	26.01	102.3
	133.0	6.95	101.9		194.5	26.75	102.3
	134.5	6.95	101.9		196.0	27.32	102.3
	136.0	6.97	101.9		197.5	28.51	102.3
	137.5	6.98	101.9		199.0	28.89	102.3
	139.0	7.00	101.9		200.5	29.27	102.4
	140.5	7.01	101.9		202.0	29.98	102.4
	142.0	7.02	101.9		203.5	31.00	102.4
	143.5	7.01	102.0		205.0	31.65	102.4
	145.0	7.02	102.0		206.5	32.32	102.4
	146.5	7.02	102.0		208.0	32.96	102.4
	148.0	7.02	102.0		209.5	33.75	102.4
	149.5	7.03	102.0		211.0	33.33	102.4
	151.0	7.05	102.0		212.5	33.35	102.4
	152.5	7.06	102.0		214.0	33.35	102.4
	154.0	7.07	102.0		215.5	33.34	102.4
	155.5	7.09	102.0		217.0	33.33	102.4
	157.0	7.09	102.0		218.5	33.33	102.4
	158.5	7.09	102.0		220.0	33.33	102.4

Printing every 3 samples

Serial # 8365				Serial # 8365			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	33.33	102.4		283.0	33.20	102.6
	223.0	33.33	102.4		284.5	33.19	102.6
	224.5	33.33	102.5		286.0	33.20	102.6
	226.0	33.32	102.5		287.5	33.21	102.6
	227.5	33.31	102.5		289.0	33.22	102.6
	229.0	33.29	102.5		290.5	33.23	102.6
	230.5	33.28	102.5		292.0	33.24	102.6
	232.0	33.28	102.5		293.5	33.23	102.7
	233.5	33.29	102.5		295.0	33.23	102.7
	235.0	33.31	102.5		296.5	33.23	102.7
	236.5	33.29	102.5		298.0	33.23	102.7
	238.0	33.27	102.5		299.5	33.21	102.7
	239.5	33.24	102.5		301.0	33.20	102.7
	241.0	33.22	102.5		302.5	33.17	102.7
	242.5	33.20	102.5		304.0	33.14	102.7
	244.0	33.19	102.5		305.5	33.12	102.7
	245.5	33.18	102.5		307.0	33.12	102.7
	247.0	33.17	102.5		308.5	33.13	102.7
	248.5	33.18	102.5		310.0	33.12	102.7
	250.0	33.19	102.5		311.5	33.13	102.7
	251.5	33.20	102.5		313.0	33.13	102.7
	253.0	33.20	102.5		314.5	33.12	102.7
	254.5	33.20	102.5		316.0	33.12	102.7
	256.0	33.18	102.5		317.5	33.12	102.7
	257.5	33.17	102.5		319.0	33.13	102.7
	259.0	33.18	102.6		320.5	33.13	102.7
	260.5	33.18	102.6		322.0	33.14	102.7
	262.0	33.19	102.6		323.5	33.16	102.7
	263.5	33.22	102.6		325.0	33.15	102.7
	265.0	33.22	102.6		326.5	33.14	102.8
	266.5	33.24	102.6		328.0	33.15	102.8
	268.0	33.25	102.6		329.5	33.15	102.8
	269.5	33.25	102.6		331.0	33.14	102.8
	271.0	33.25	102.6		332.5	33.15	102.8
	272.5	33.24	102.6		334.0	33.15	102.8
	274.0	33.22	102.6		335.5	33.13	102.8
	275.5	33.22	102.6		337.0	33.12	102.8
	277.0	33.21	102.6		338.5	33.12	102.8
	278.5	33.21	102.6		340.0	33.10	102.8
	280.0	33.20	102.6		341.5	33.14	102.8
	281.5	33.21	102.6		343.0	33.16	102.8

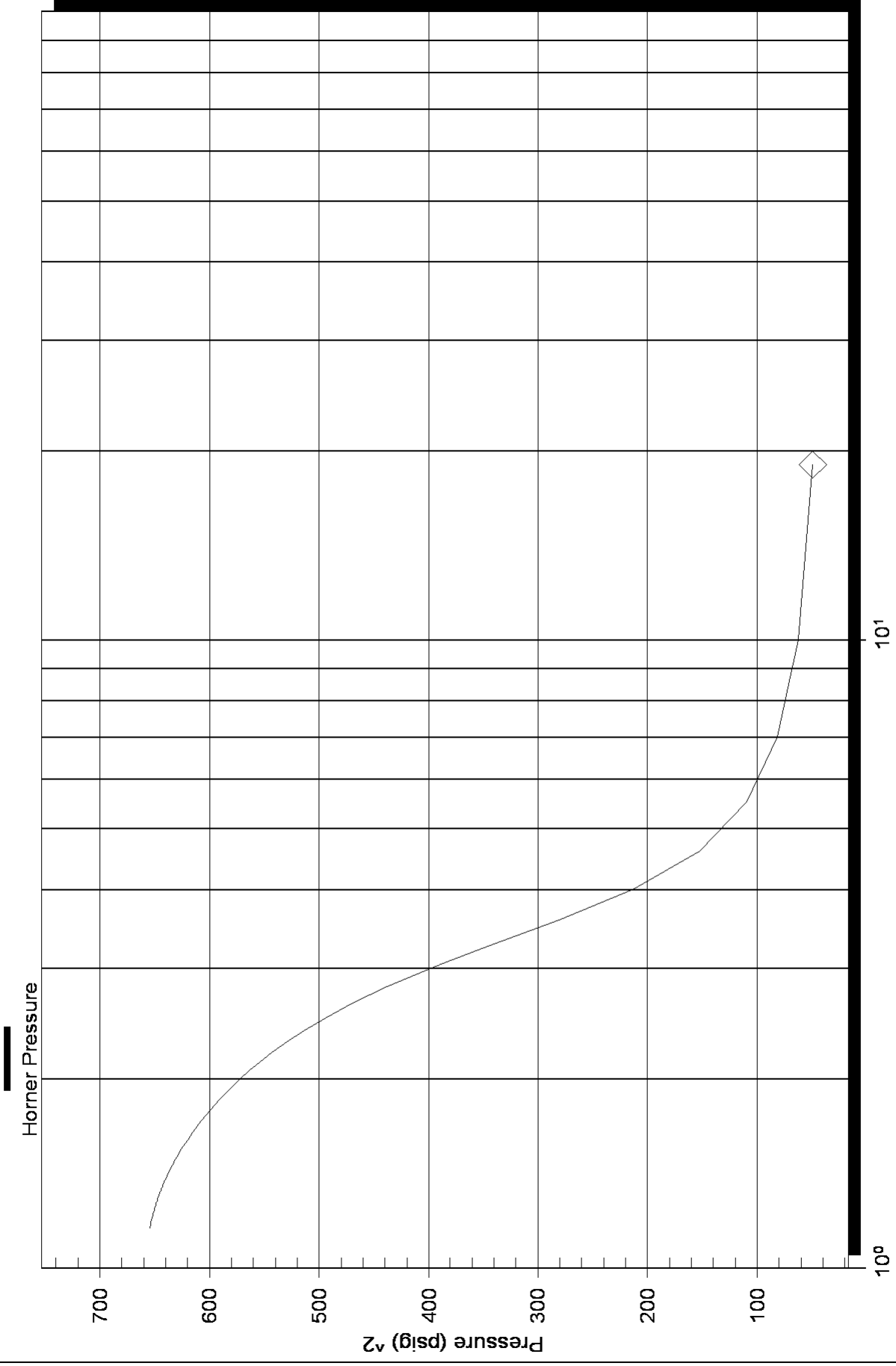
Printing every 3 samples

Serial # 8365				Serial # 8365			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	33.18	102.8		406.0	32.20	89.0
	346.0	33.23	102.8		407.5	32.21	89.1
	347.5	33.30	102.8		409.0	32.18	89.1
	349.0	33.30	102.8		410.5	32.16	89.1
	350.5	33.35	102.8		412.0	31.59	89.0
	352.0	33.37	102.8		413.5	29.38	89.0
	353.5	33.39	102.7		415.0	29.16	89.0
	355.0	34.00	102.7		416.5	19.67	88.8
	356.5	33.38	102.6		418.0	-0.92	85.4
	358.0	33.43	102.3		419.5	-0.80	79.2
	359.5	34.70	102.0		421.0	-0.82	74.6
	361.0	33.30	101.5		422.5	-0.83	71.8
	362.5	33.31	101.1		424.0	-0.84	71.3
	364.0	32.54	100.7		425.5	-0.84	69.8
	365.5	33.79	100.1		427.0	-0.83	68.7
	367.0	33.19	99.6		428.5	-0.83	68.1
	368.5	34.11	99.2		430.0	-0.82	67.8
	370.0	33.08	98.7		431.5	-0.82	67.5
	371.5	33.03	98.3		433.0	-0.82	67.5
	373.0	33.12	97.8		434.5	-0.81	67.5
	374.5	32.93	97.4		436.0	-0.80	67.7
	376.0	32.95	97.2		437.5	-0.77	67.8
	377.5	33.47	96.9		439.0	-0.76	67.9
	379.0	32.83	96.6		440.5	-0.74	68.0
	380.5	32.79	96.3		442.0	-0.70	68.2
	382.0	32.81	96.1		443.5	-0.68	68.3
	383.5	32.79	95.9		445.0	-0.65	68.4
	385.0	35.22	95.6		446.5	-0.66	68.5
	386.5	32.64	95.0		448.0	-0.66	68.5
	388.0	32.64	94.3		449.5	-0.59	68.5
	389.5	32.60	93.7		451.0	-0.62	68.5
	391.0	32.62	93.1		452.5	-0.76	68.5
	392.5	32.64	92.6		454.0	-0.68	70.0
	394.0	34.77	92.1		454.5	-0.63	70.0
	395.5	32.48	91.5				
	397.0	32.52	90.9				
	398.5	32.48	90.7				
	400.0	32.38	90.5				
	401.5	32.08	90.0				
	403.0	32.33	89.6				
	404.5	32.25	89.2				

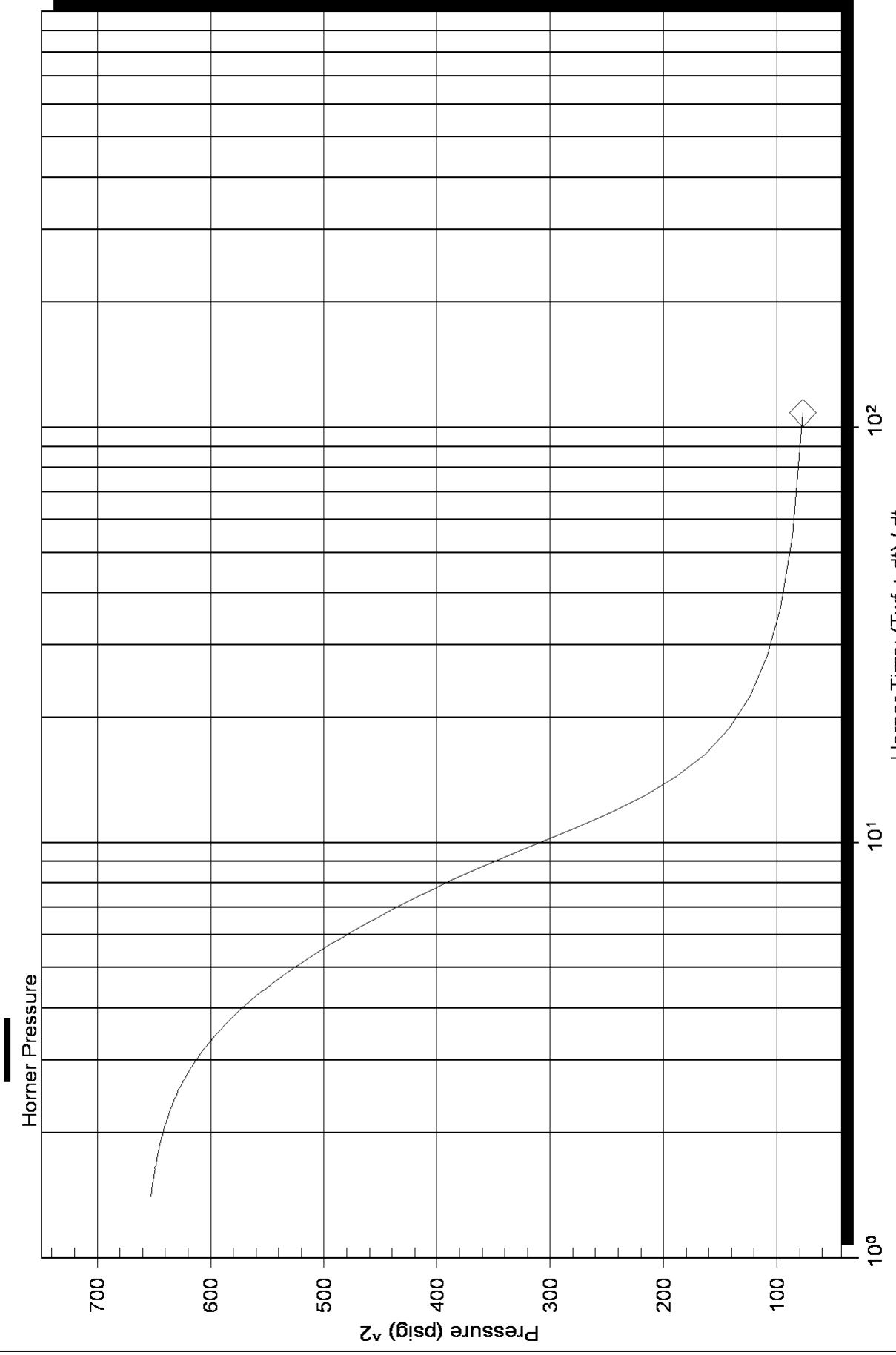
Printing every 3 samples



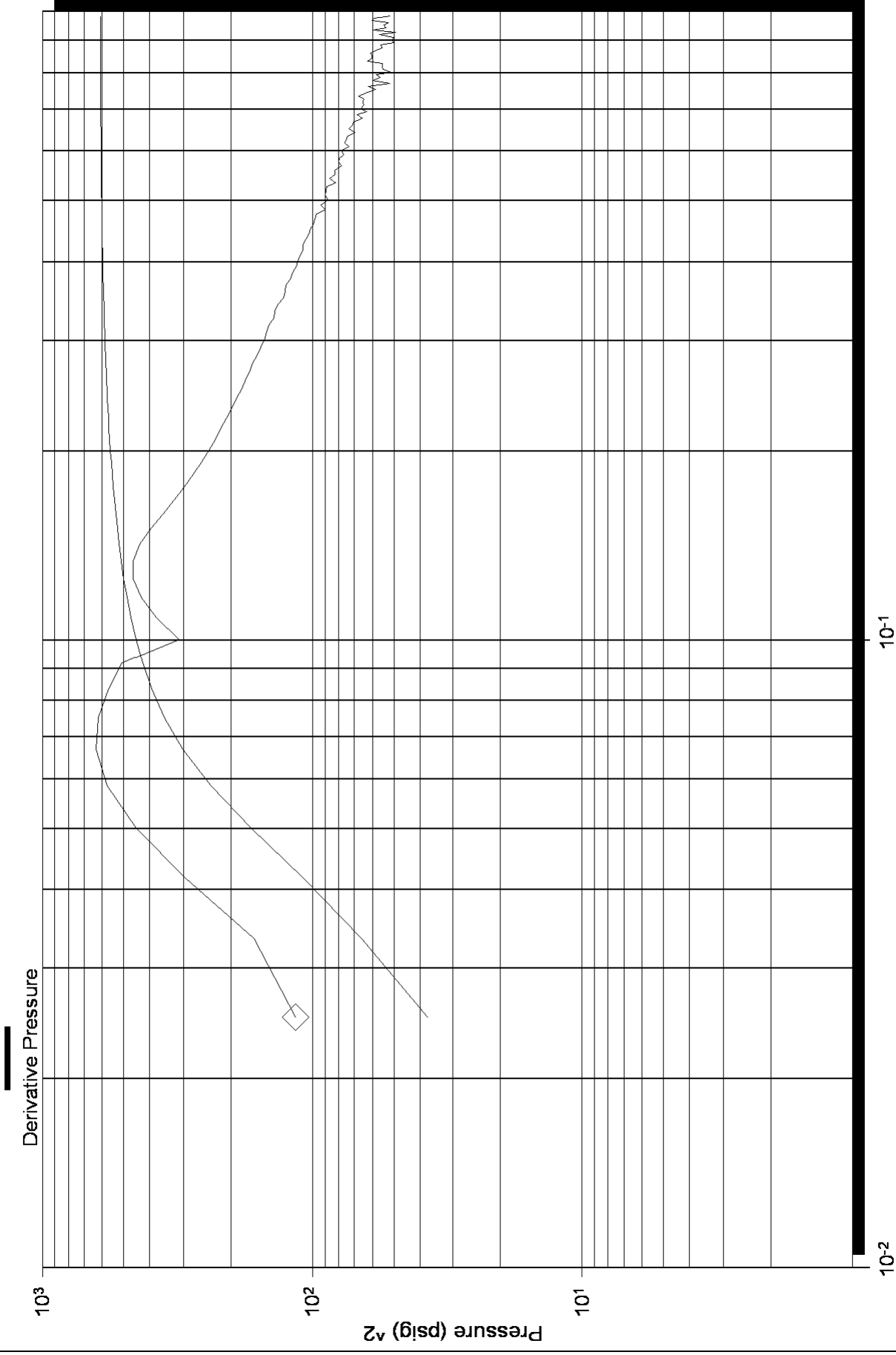
### Homer Plot



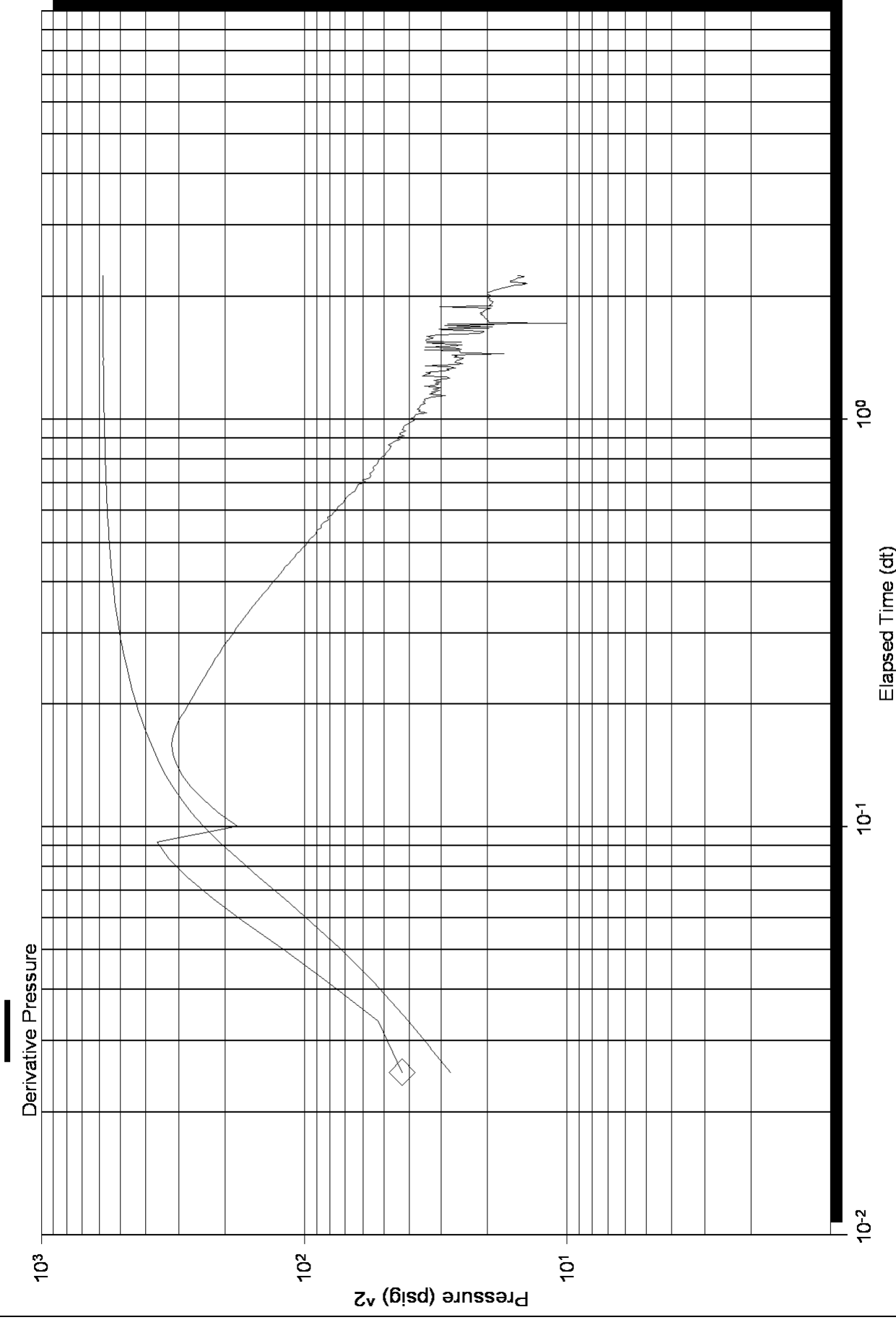
### Homer Plot



### Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43402

**DST#: 2**

ATTN: Neil Sharp

Test Start: 2011.06.05 @ 13:31:10

## GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:16:10

Time Test Ended: 20:55:10

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3313.00 ft (KB) To 3366.00 ft (KB) (TVD)**

Reference Elevations: 1986.00 ft (KB)

Total Depth: 3366.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 74.05 psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.05

End Date:

2011.06.05

Last Calib.:

2011.06.05

Start Time: 13:31:11

End Time:

20:55:10

Time On Btm:

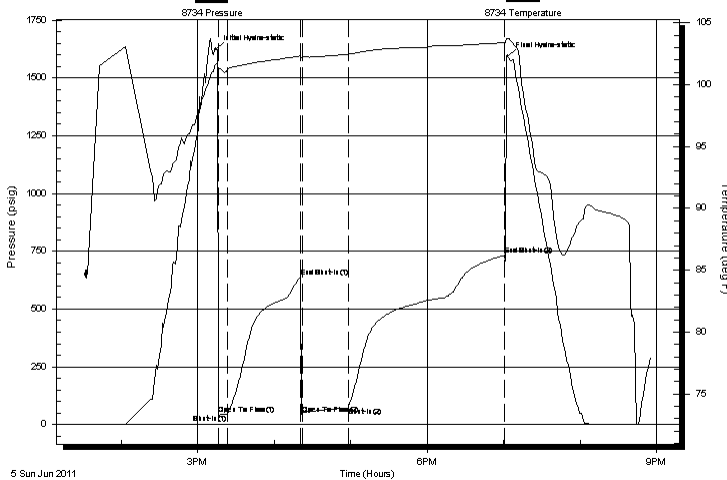
2011.06.05 @ 15:14:10

Time Off Btm:

2011.06.05 @ 19:03:10

**TEST COMMENT:** 5 - IFP - BOB 3 min  
60 - ISI - no blow back  
40 - FFP - BOB open  
120 - FSI - 1 1/2" blow back - died 19 min

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.74	101.61	Initial Hydro-static
2	46.10	101.23	Open To Flow (1)
9	45.91	101.18	Shut-In(1)
67	639.27	102.33	End Shut-In(1)
68	45.13	102.21	Open To Flow (2)
104	74.05	102.45	Shut-In(2)
227	732.21	103.39	End Shut-In(2)
229	1592.60	103.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GMO 45%G, 30%O, 25%M	0.63
45.00	GHOCM 5%G, 30%O, 65%M	0.63
15.00	FREE OIL 95%O, 5%M	0.21
0.00	1220' GIP	0.00

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43402

**DST#: 2**

ATTN: Neil Sharp

Test Start: 2011.06.05 @ 13:31:10

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5900.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 37 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

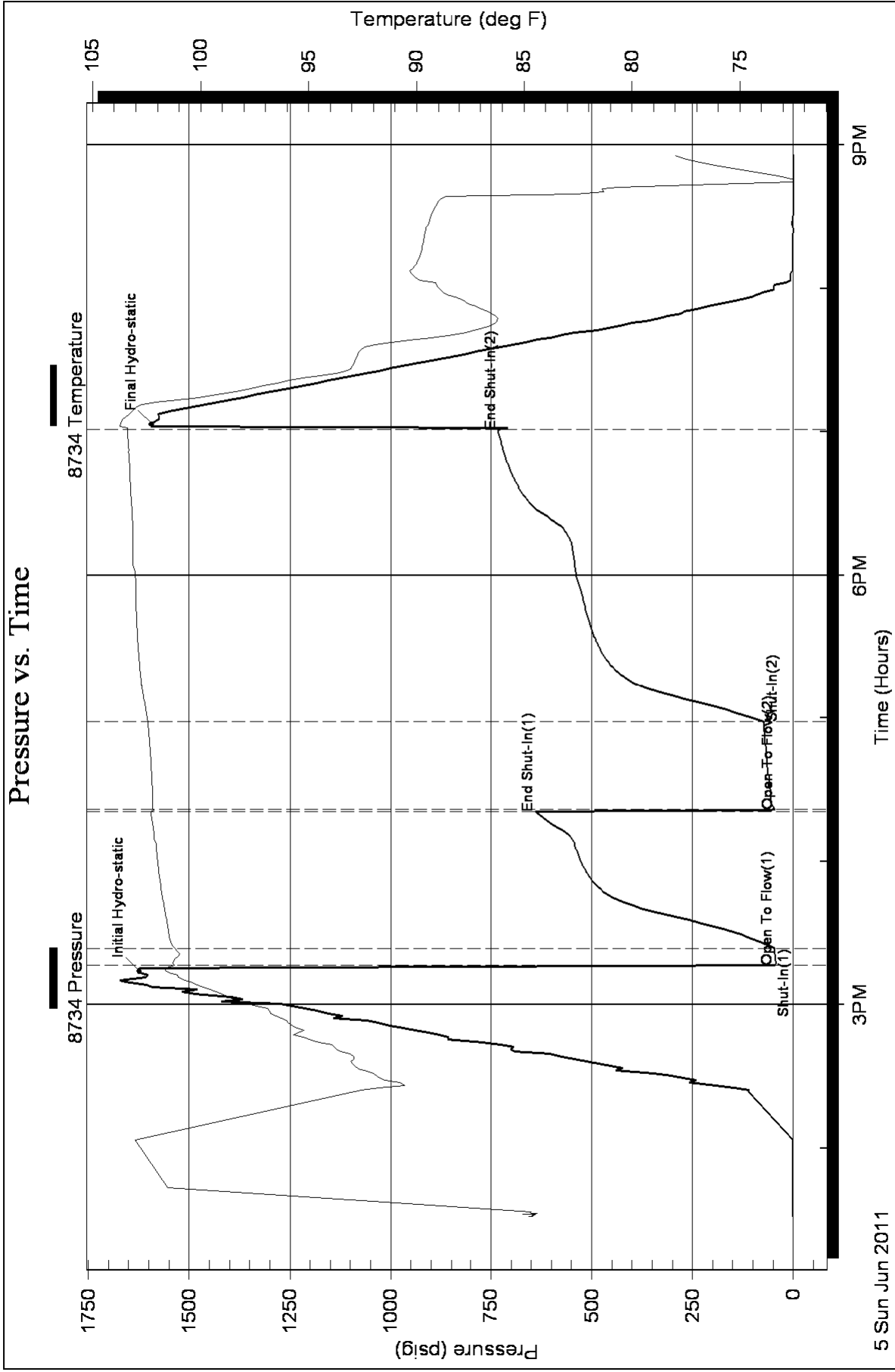
Length ft	Description	Volume bbl
45.00	GMO 45%G, 30%O, 25%M	0.631
45.00	GHOCM 5%G, 30%O, 65%M	0.631
15.00	FREE OIL 95%O, 5%M	0.210
0.00	1220' GIP	0.000

Total Length: 105.00 ft      Total Volume: 1.472 bbl

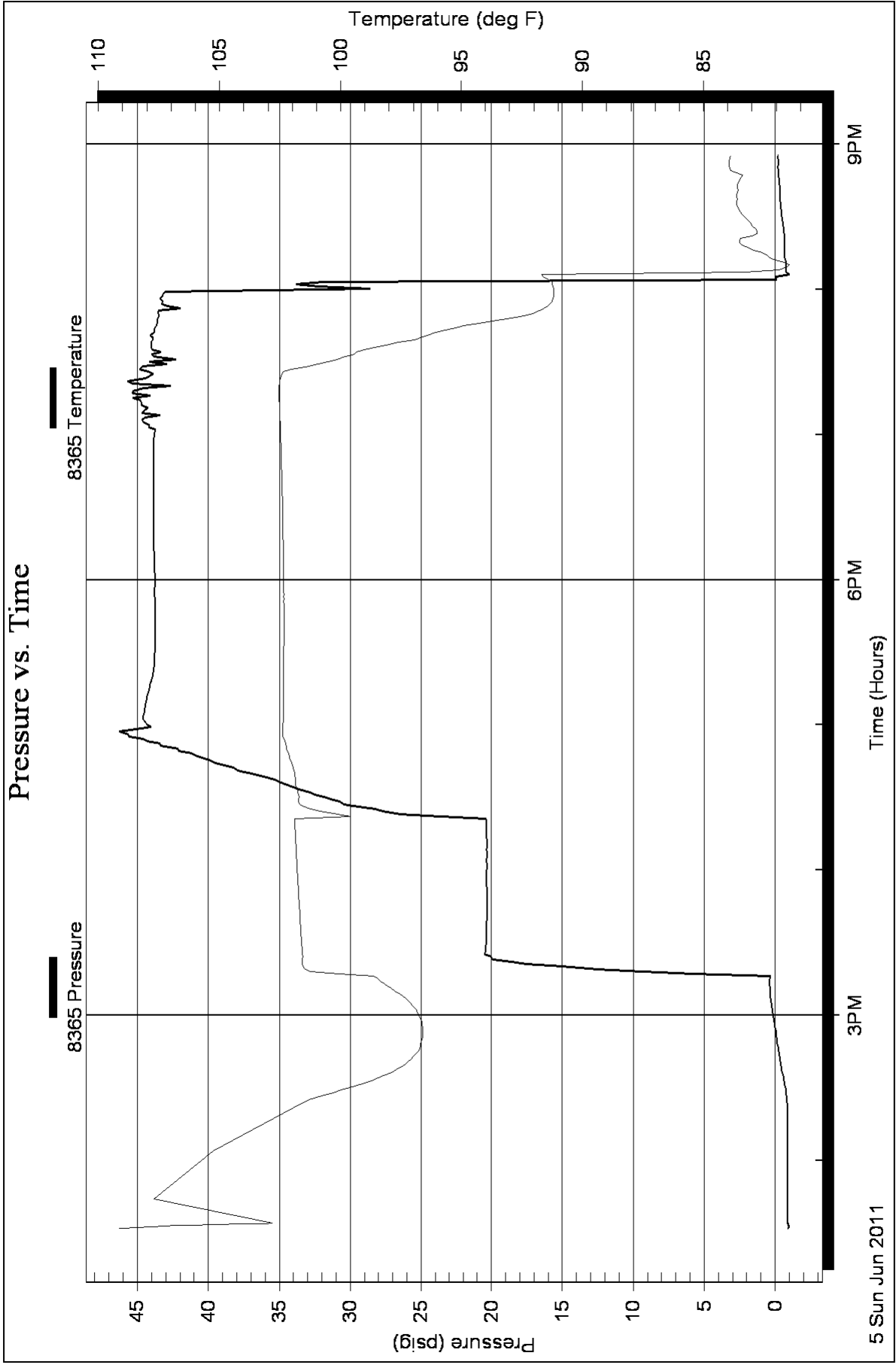
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: 2500 ml GAS, 975 ml OIL, 525 ml MUD, 875 lbs









**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43403

**DST#: 3**

ATTN: Neil Sharp

Test Start: 2011.06.07 @ 17:29:36

## GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:36

Time Test Ended: 00:07:06

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3429.00 ft (KB) To 3474.00 ft (KB) (TVD)**

Reference Elevations: 1986.00 ft (KB)

Total Depth: 3474.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 34.23 psig @ 3434.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.07

End Date:

2011.06.08

Last Calib.:

2011.06.08

Start Time: 17:29:37

End Time:

00:07:06

Time On Btm:

2011.06.07 @ 19:03:36

Time Off Btm:

2011.06.07 @ 22:16:36

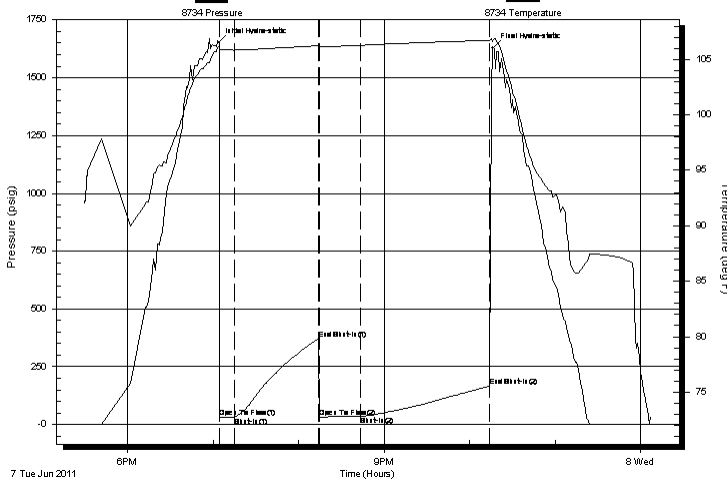
**TEST COMMENT:** 10 - IFP - weak sur blow throughout

60 - ISI - no blow back

30 - FFP - no blow

90 - FSI - no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.71	106.15	Initial Hydro-static
1	31.57	105.88	Open To Flow (1)
12	32.80	105.83	Shut-In(1)
71	371.17	106.24	End Shut-In(1)
71	33.35	106.12	Open To Flow (2)
100	34.23	106.27	Shut-In(2)
191	165.88	106.73	End Shut-In(2)
193	1628.67	106.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	V SOCM 2%O, 98%M	0.06

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43403

**DST#: 3**

ATTN: Neil Sharp

Test Start: 2011.06.07 @ 17:29:36

## GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:36

Time Test Ended: 00:07:06

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

**Interval: 3429.00 ft (KB) To 3474.00 ft (KB) (TVD)**

Reference Elevations: 1986.00 ft (KB)

Total Depth: 3474.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

## Serial #: 8365 Fluid

Press @ Run Depth: psig @ 3394.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.07

End Date:

2011.06.08

Last Calib.:

2011.06.08

Start Time: 17:29:51

End Time:

00:07:50

Time On Btm:

Time Off Btm:

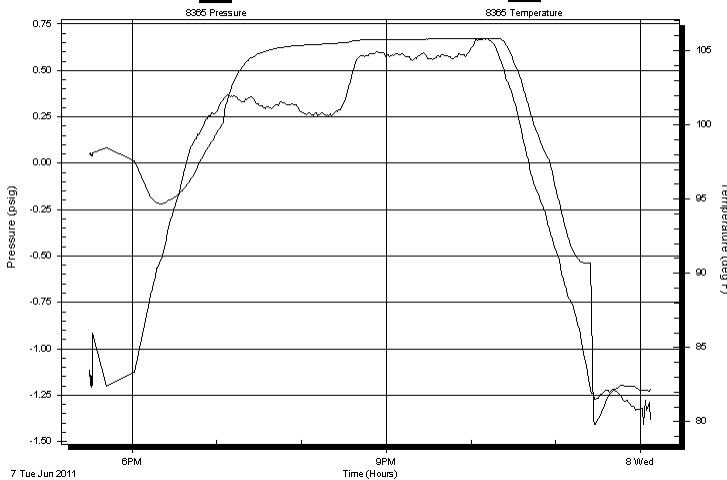
TEST COMMENT: 10 - IFP - weak sur blow throughout

60 - ISI - no blow back

30 - FFP - no blow

90 - FSI - no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	V/SOCM 2%O, 98%M	0.06

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
----------------	-----------------	------------------



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. and Associates, Inc.

**Clair 3-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26-16-16 Rush, Ks**

Job Ticket: 43403

**DST#: 3**

ATTN: Neil Sharp

Test Start: 2011.06.07 @ 17:29:36

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	VSOCM 2%O, 98%M	0.056

Total Length: 4.00 ft      Total Volume: 0.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

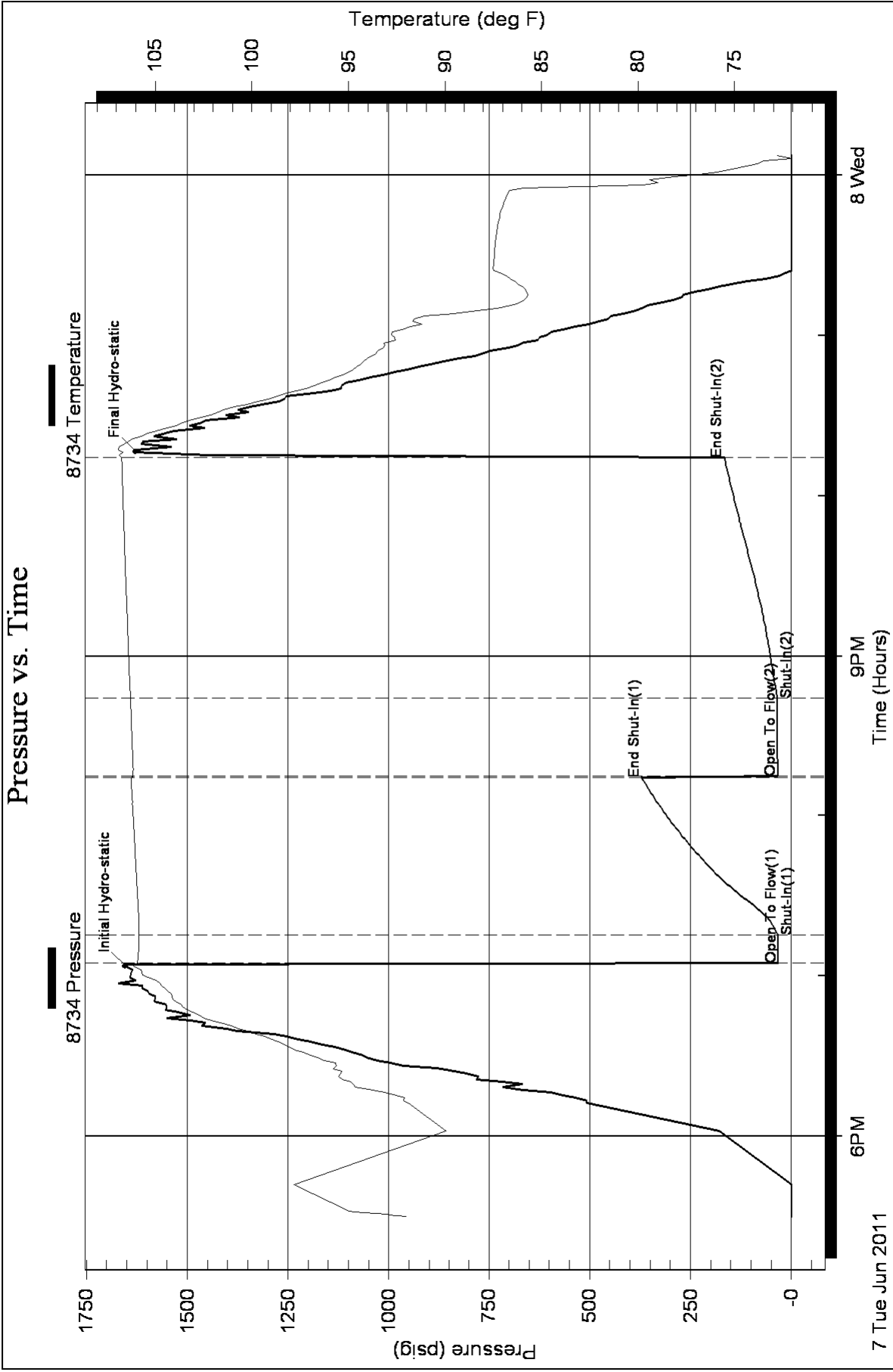
Serial #:

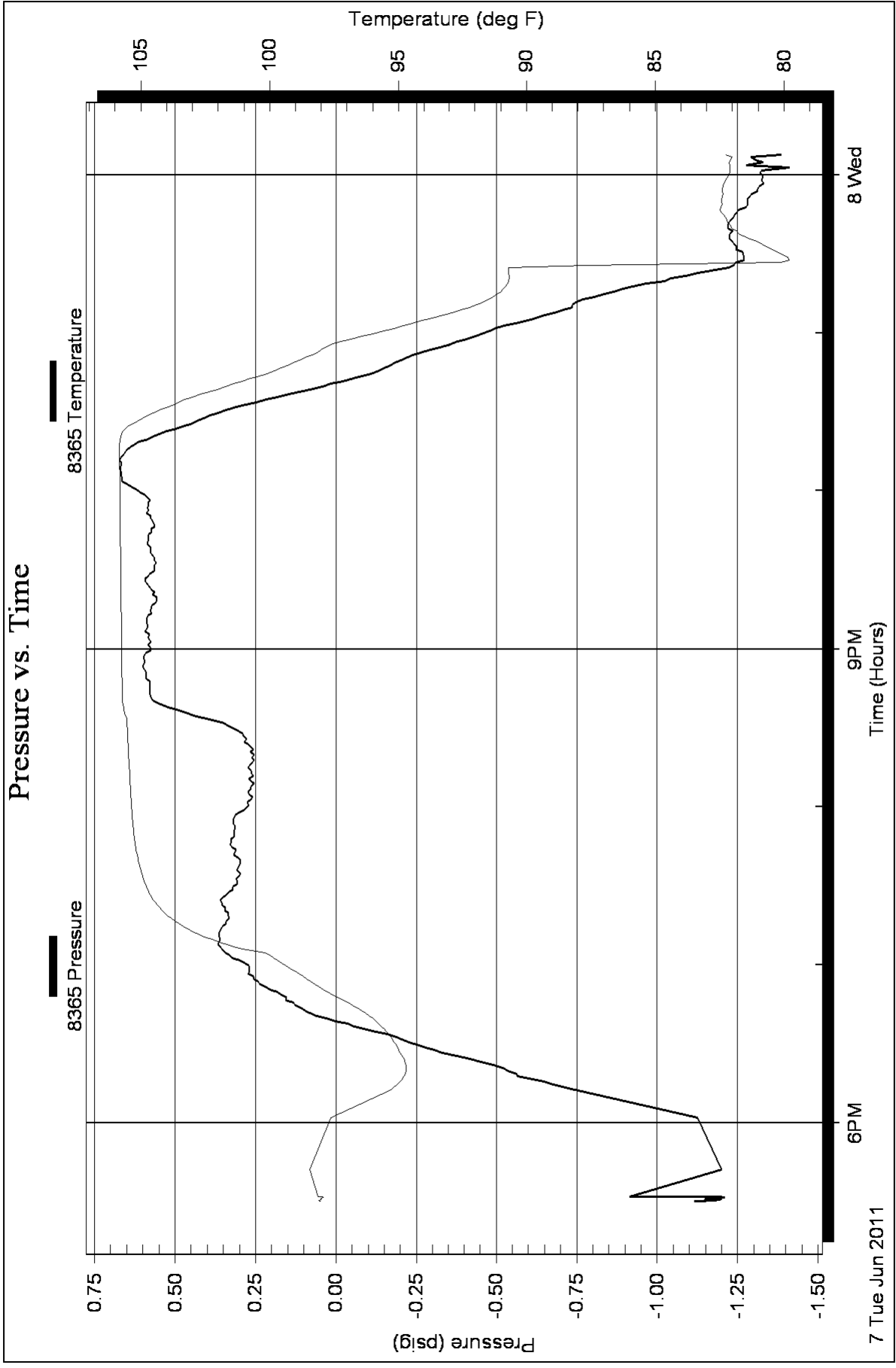
Laboratory Name:

Laboratory Location:

Recovery Comments: 80 ml OIL, 3920 ml, MUD 80 lbs

### Pressure vs. Time







Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: SGA Clair 3-26  
Location: SEC 26, 16S, 16W, Rush Co. , Kansas  
License Number: 15-165-21924-000  
Spud Date: 05/28/2011  
Surface Coordinates: 2215' FNL & 1980' FEL  
Region: Wildcat  
Drilling Completed: 06/08/2011

Bottom Hole Coordinates:

Ground Elevation (ft): 1976'                      K.B. Elevation (ft): 1986'  
Logged Interval (ft): 1800'                      To: 3650'                      Total Depth (ft): 3650'  
Formation: Lansing, Arbuckle  
Type of Drilling Fluid:

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Samuel Gary Jr, & Assoc.  
Address: 1515 Wykoop, Ste. # 700  
Denver, Colo. 80202  
Geo: Neal Sharp

GEOLOGIST

Name: JASON MARSHALL  
Company: Earth Tech OGL, Inc.  
Address: PO Box 683  
Hooker, Okla . 73945  
Off. 888-543-8378 Cell: 620-655-1298

Circulating Report

DST's Report

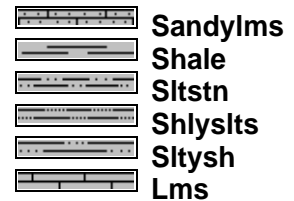
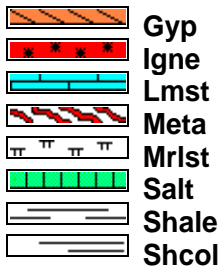
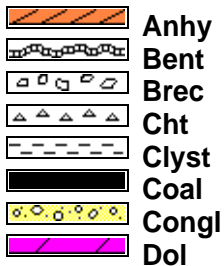
DST #1, 3250'-3311', 10,60,45,135  
IFP-WEAK BLOW THROUGHOUT SUR-1", ISI-NO BLOW BACK, FF-NO BLOW 4MIN-6", FSI-NO BLOW BACK,  
IH-1601, FH-1581, FIF-35, FFF-44, SIF-53, SFF-69, ISI-655, FSI-653, TOTAL REC- 65', 100% MUD

DST #2, 3313'-3366', 5,60,40,120  
IFP-BOB IN 3 MIN, ISI-NO BLOW BACK, FF-BOB OPEN, FSI-1 1/2 BLOW BACK- DIED IN 19MIN, IH-1624, FH-1593  
FIF-46, FFF-46, SIF-45, SFF-74, ISI-639, FSI-732, TOTAL REC- 105', 95% OIL, AN 5% MUD, GRAV-37, BHT 103

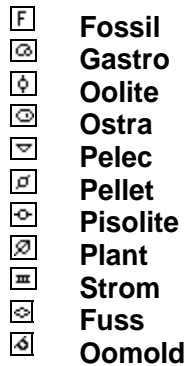
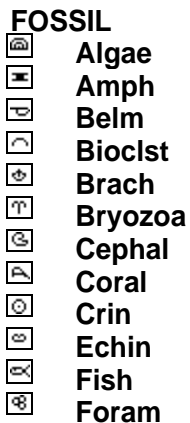
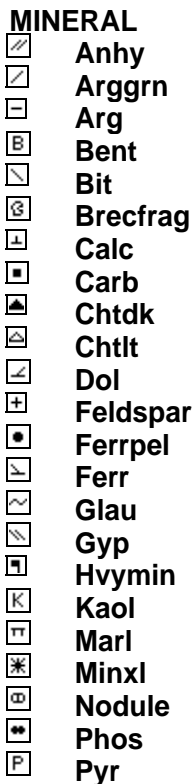
DST #3, 3429'-3474', 10,60,30,90  
IFP-WEAK BLOW THROUGHOUT, ISI-NO BLOW BACK, FF-NO BLOW, FSI-NO BLOW BACK, IH-1654, FH-1629,  
FIF-32, FFF-33, SIF-33, SFF-34, ISI-371, FSI-166, TOTAL REC- 4', 2% OIL, AN 98% MUD, BHT 107

# DST's Report

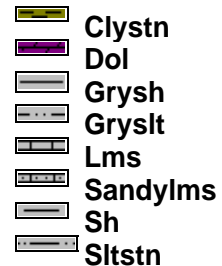
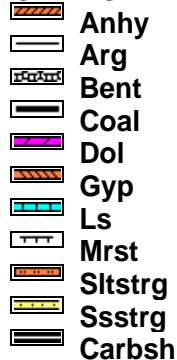
## ROCK TYPES



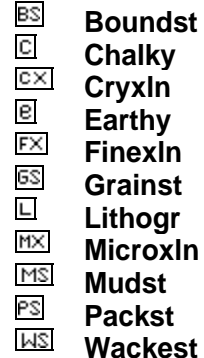
## ACCESSORIES



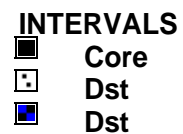
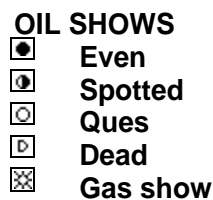
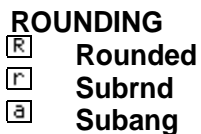
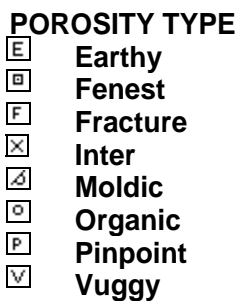
### STRINGER



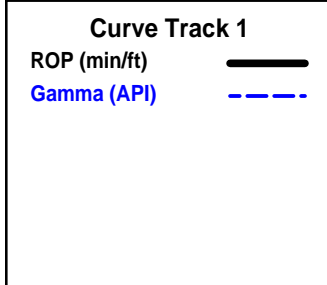
### TEXTURE



## OTHER SYMBOLS





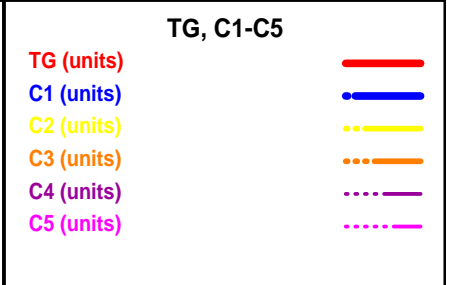


Depth

Lithology

Oil Shows

Geological Descriptions



0 ROP (min/ft) 5  
0 Gamma (API) 150

17

VAL. RIG. #6

1 TG, C1-C5 10 100 1000

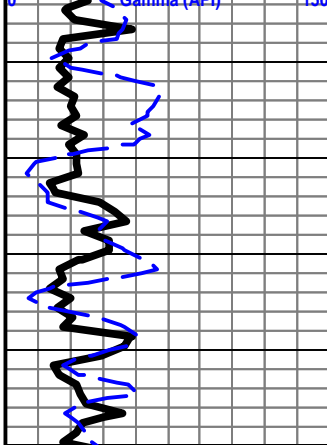
Start Unmanned Unit  
on 6/02/2011

Randy Martin 620-282-1496

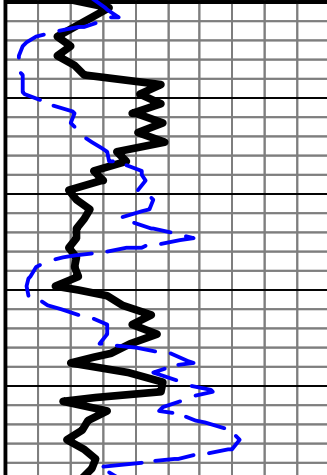
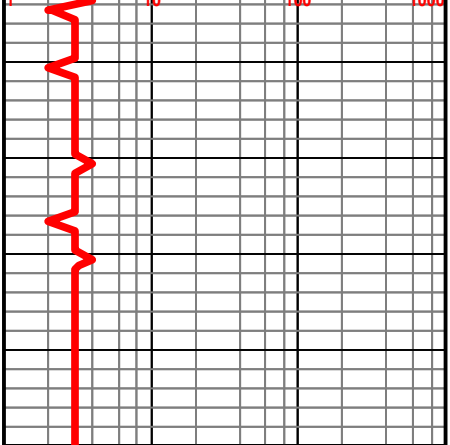
0 ROP (min/ft) 5  
0 Gamma (API) 150

1800

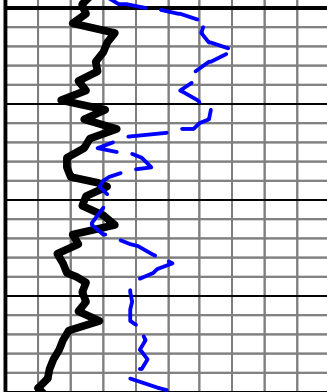
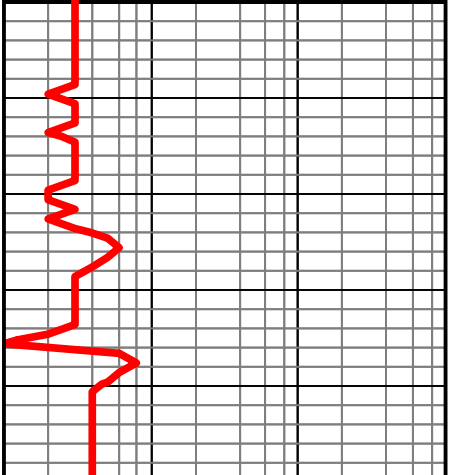
1 TG, C1-C5 10 100 1000



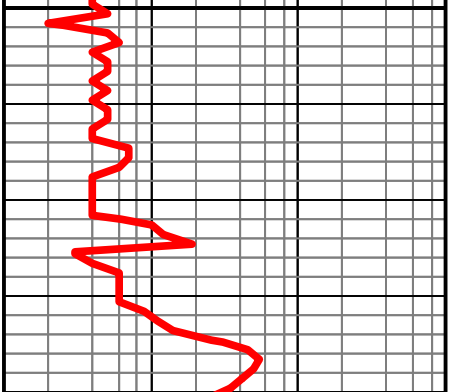
1850

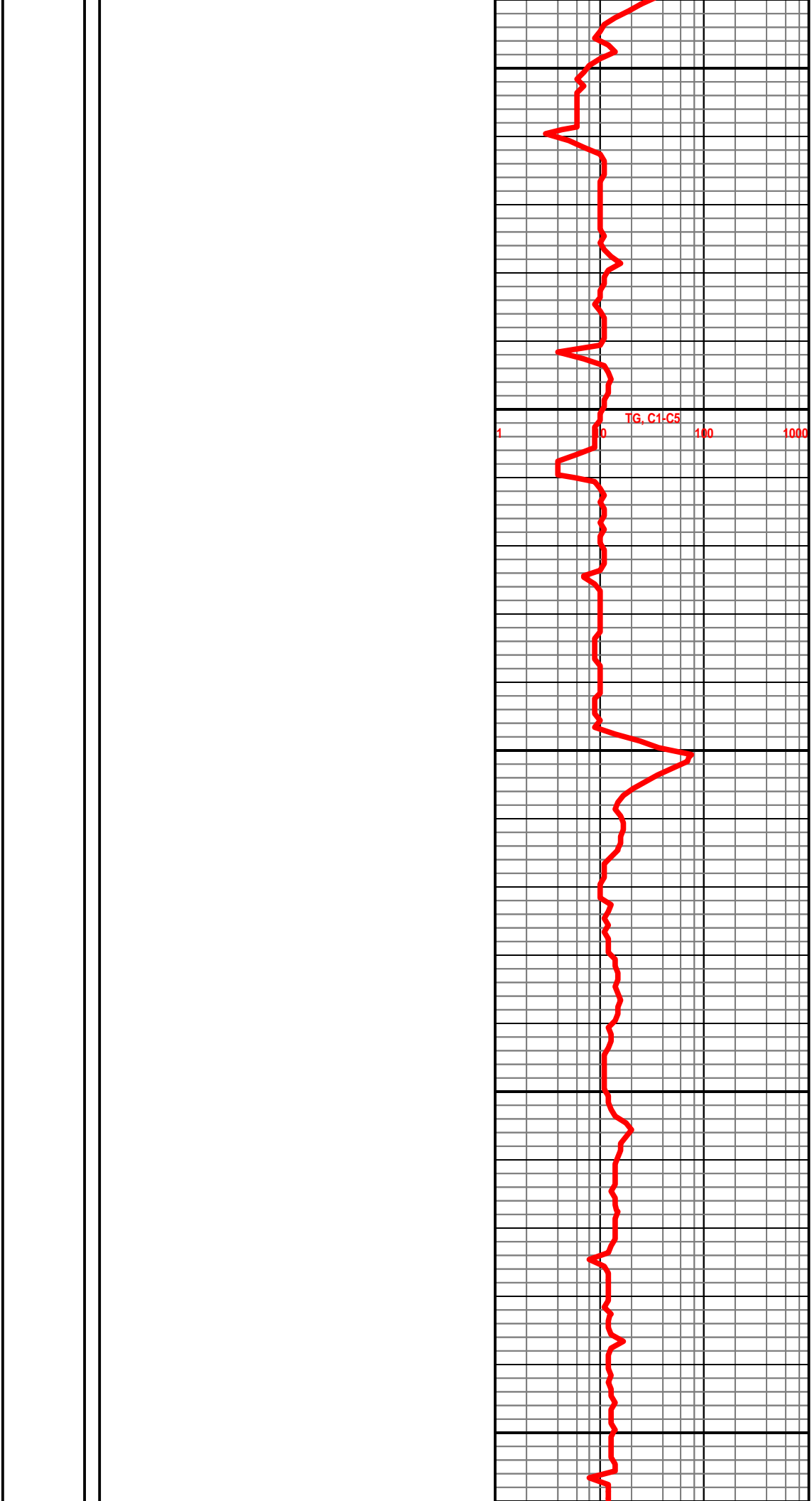
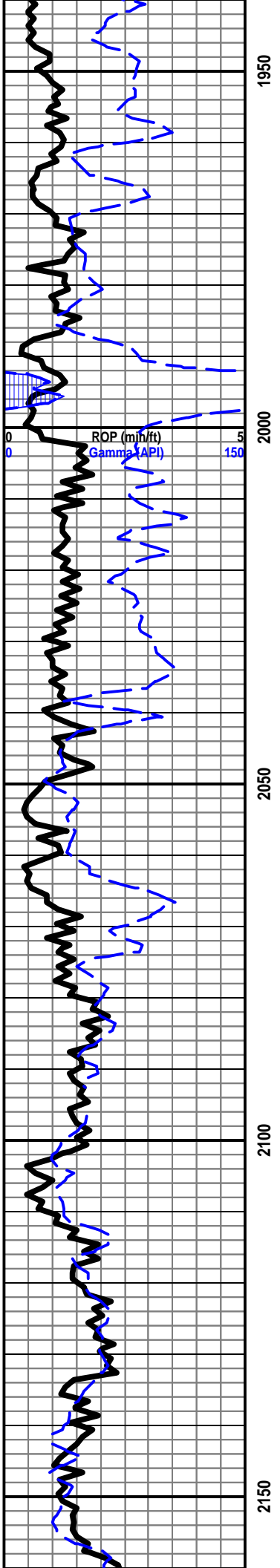


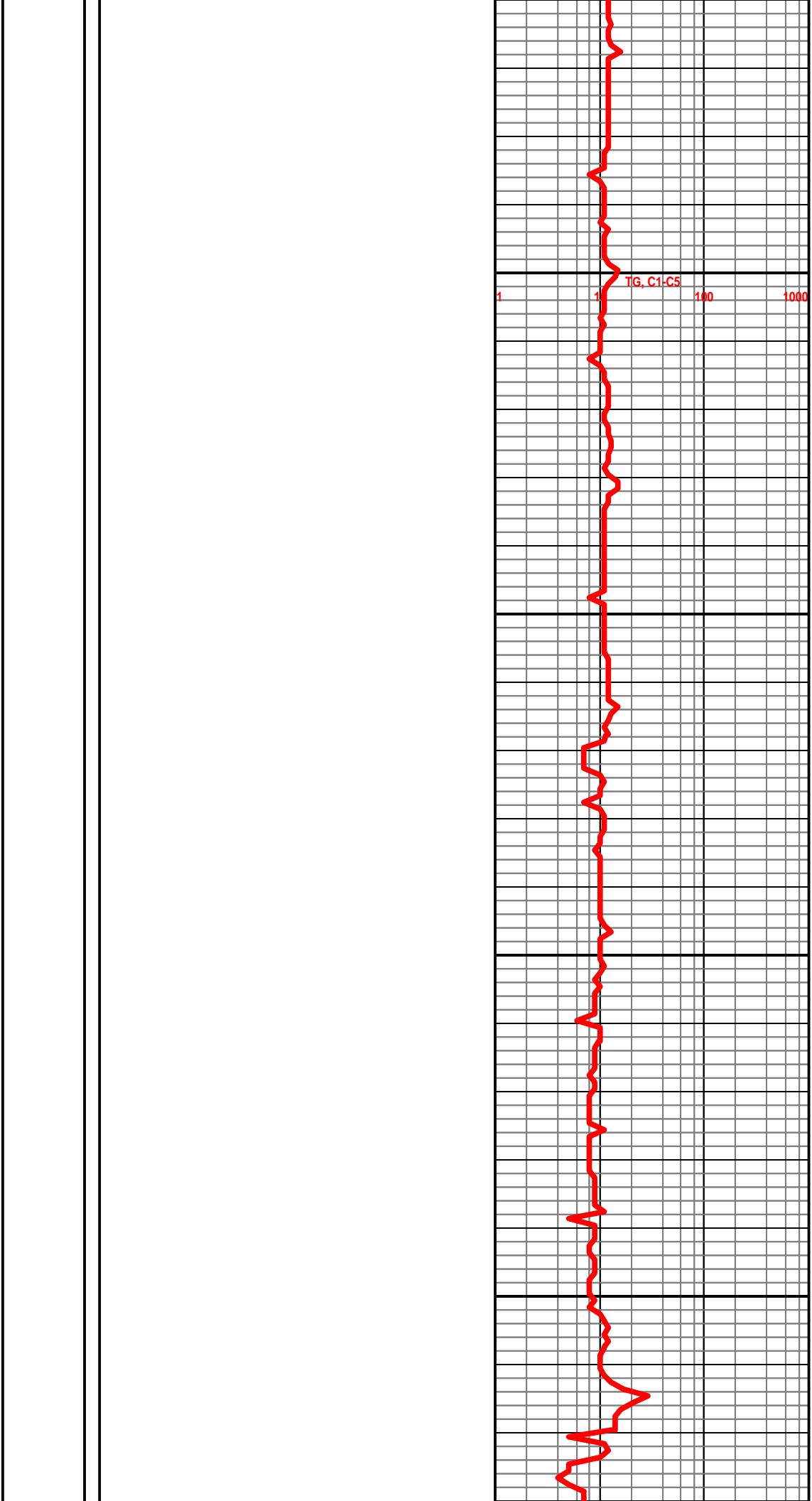
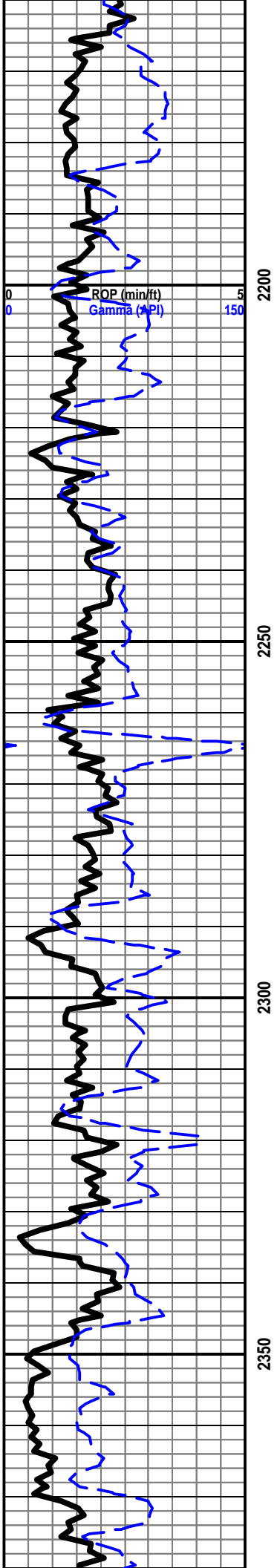
1900

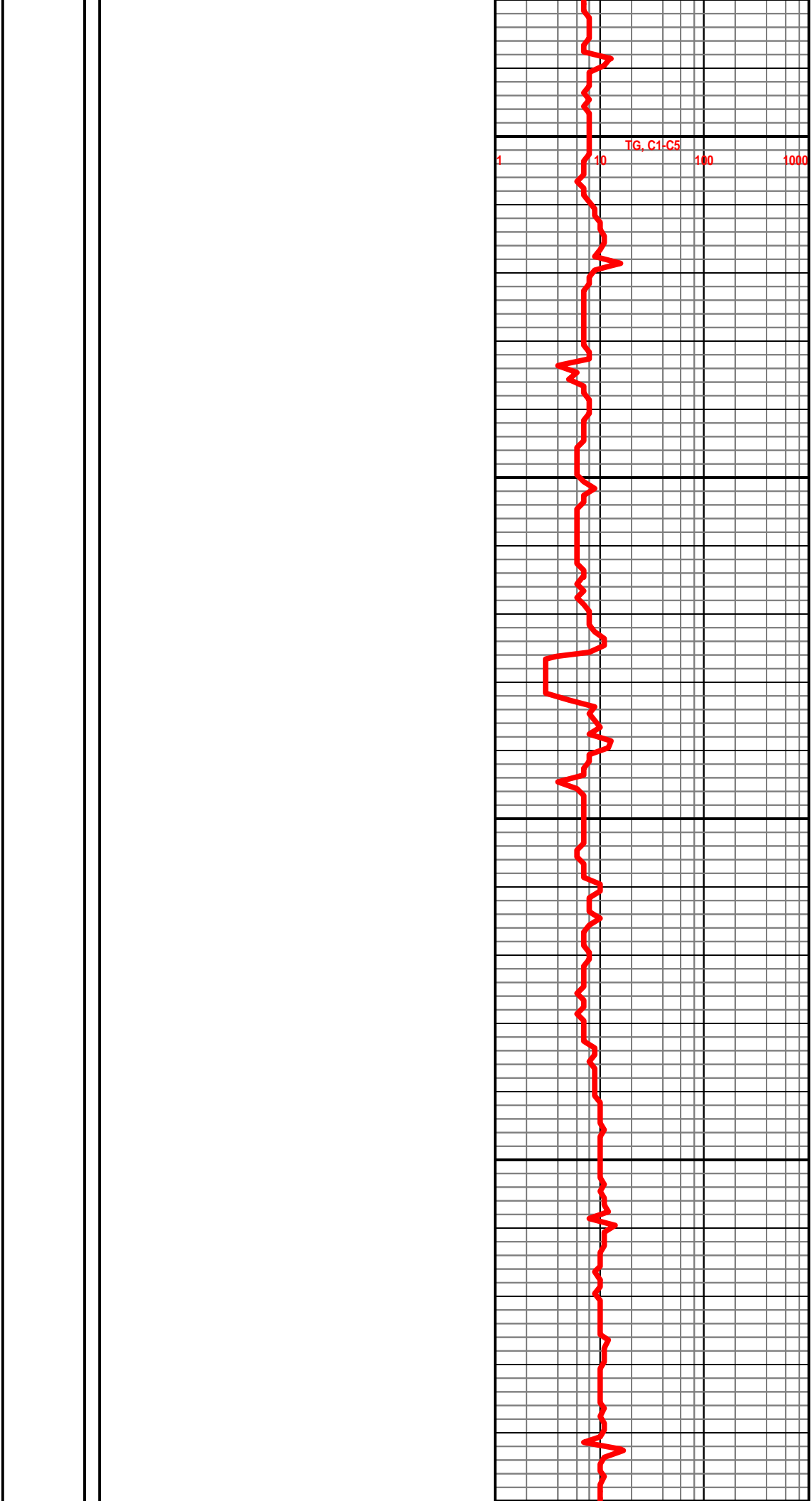
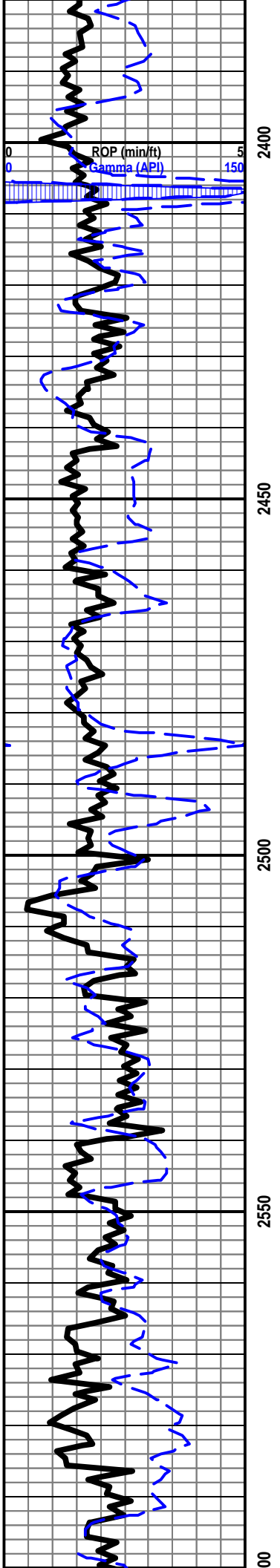


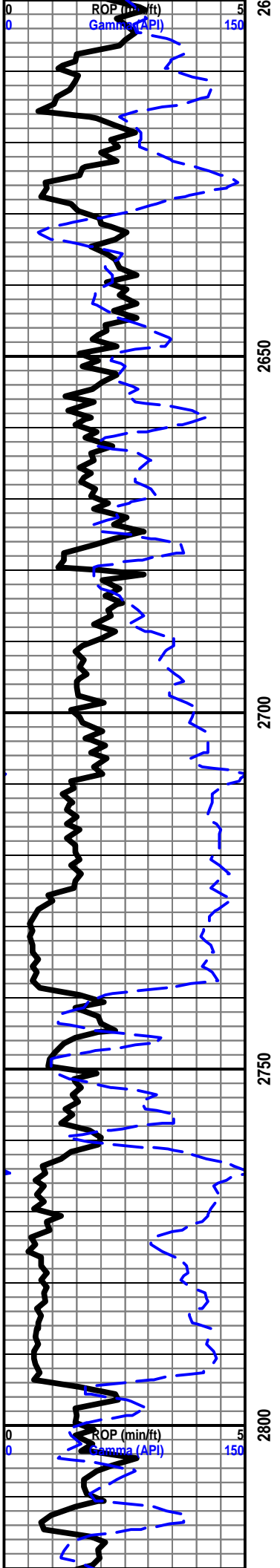
2000



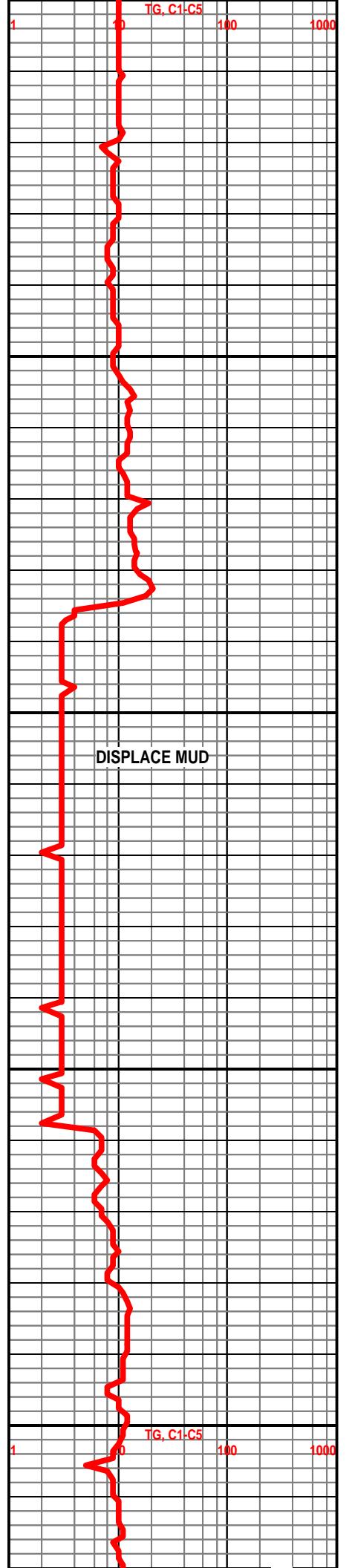






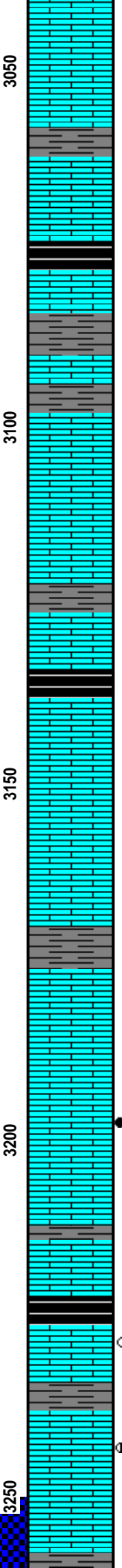
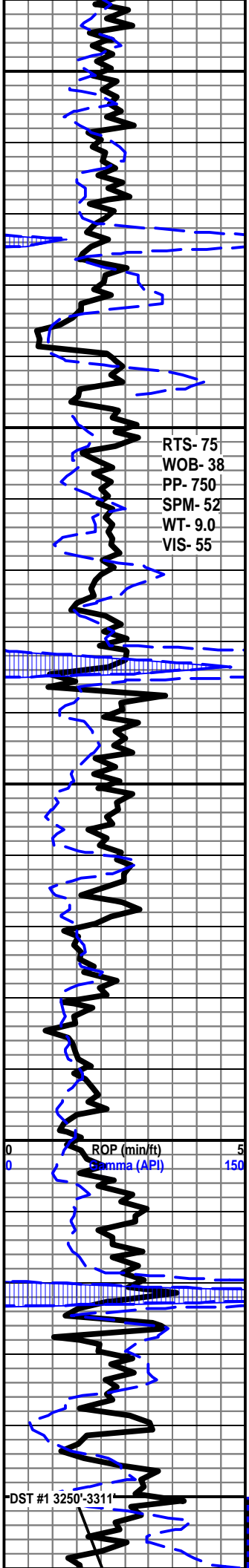


BASE ROOT SHALE 2738' -752'



DISPLACE MUD





LS- CRM LT TN TO TN BUFF IP, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS SCAT IP, TR SFT GRYISH WHT CHLK SCAT THRU, NO VIS FLO, NO VIS POR NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY

SH- SFT BLACK CARB SHALE

**LE COMPTON 3097' -1111'**

SH- GRY TO DK GRY, FRM, SMTH BLKY TO TR SPLINTY

LS- CRM LT TN TO TN STAIN IN 30%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, TR IMBD DISS PYR SCAT THRU, SLI TR SFT WHT CHLK SCAT IP, DLL YEL FLO IN 25%, V/SLI V/PR TR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY TO SPLINTY IP, TR DISS PYR IP

SH- SFT BLACK CARB SHALE

LS- CRM LT TN TO TN STAIN IN 25%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, SLI TR SFT WHT CHLK SCAT IP, NO VIS FLO, V/PR TR INTR-XLN POR, NO VIS CUT, NO VIS SHOW

SH- GRY TO DK GRY, FRM, SMTH BLKY TO SPLINTY IP

3198' LS- CRM LT TN TO TN STAIN IN 30%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, SLI TR SFT WHT CHLK SCAT IP, DEAD OIL STAIN IN 10%, DLL TO BRIT YEL FLO IN 30%, V/PR TR INTR-XLN TO FR PP POR , GD FLUSH CUT THRU TO GD STRONG MLKY BLUE CUT IN 30%, FR OIL ODOR, LT BRN STAIN ON DISH

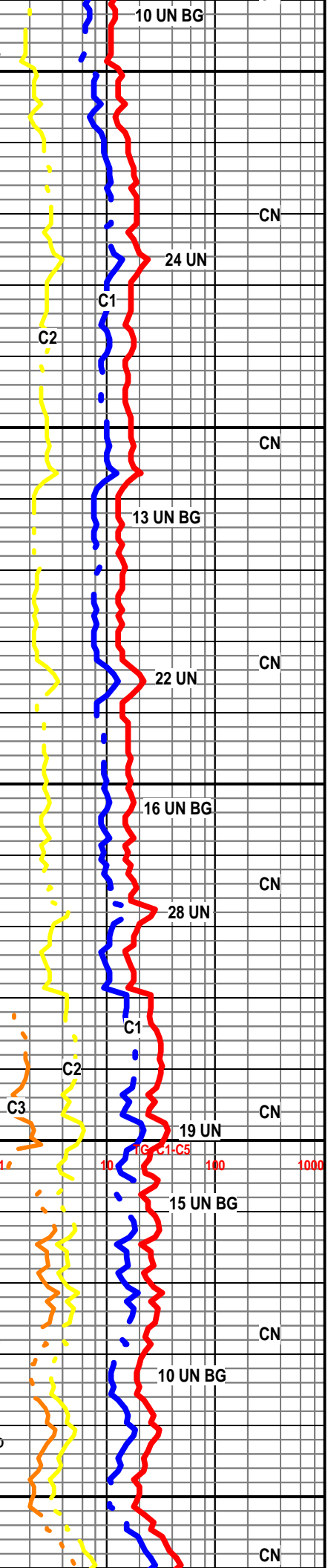
**HEEBNER 3221' -1235'**

SH- SFT BLACK CARB SHALE

3226' LS- CRM OFF WHT LT TN TO TN STAIN IN 35%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, SFT WHT CHLK SCAT THRU, DISS PYR SCAT IP, DLL YEL FLO IN 20%, PR PP POR IP, NO FLUSH CUT TO V/PR STREAM CUT, NO ODOR

3242' LS- CRM LT TN TO TN STAIN IN 40%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, DLL TO BRIT YEL FLO IN 30%, PR PP POR, GD FLUSH CUT THRU TO FR STRONG MLKY BLUE CUT IN 15%, FR OIL ODOR

**DOUGLAS 3257' -1271'**



SH- GRY TO DK GRY, FRM TR SFT, SMTH BLKY, SLI TR IMBD PYR IP

### LANSING 3279' -1293'

SHORT TRIP POINT @ 3289'  
 CFS @ 3289' 15,30,45,60  
 RTS- 75  
 WOB- 38  
 PP- 750  
 SPM- 52  
 WT- 9.0  
 VIS- 55

"C" @ 3302'  
 CFS @ 3311' 15,30,45,60  
 DST #2 3313'-3366'

CFS @ 3336' 15,30,45,60

CFS @ 3352' 15,30,45,60

CFS @ 3366' 15,30,45,60

CFS @ 3385' 15,30,45,60

CFS @ 3409' 15,30,45,60

NOTE SCALE CHANGE 0-50

CORE #1 3414-3474 Change (min/ft) 50  
 Gamma (API) "H" 150

DST#3 3429-3474 "I"

Scale Change ROP (min/ft) 5

3300

3350

3400

3450

3281' LS- CRM LT TN TO TN STAIN IN 45%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, TR SUCRO TXT SCAT THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, DLL TO BRIT YEL FLO IN 40%, FR INTR-XLN TO TR PR VUG POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 30%, FR TO GD OIL ODOR, LT BRN STAIN ON DISH

3301' LS- CRM LT TN TO TN STAIN IN 50%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, SLI TR SUCRO TXT SCAT THRU, IMBD CALC XLS SCAT THRU, IMBD FOSS FRAGS IP, SLI TR SFT WHT CHLK IP, SLI TR IMBD OOL IP, DLL TO BRIT YEL FLO IN 30%, FR INTR-XLN TO TR FR PP POR, PR FLUSH CUT THRU TO FR STRONG MLKY BLUE STREAM CUT IN 10%, FR OIL ODOR

3321' LS- CRM LT TN TO TN STAIN IN 35%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT IP, TR IMBD FOSS FRAGS IP, DLL TO GLD YEL FLO IN 15%, TR PR VUG TO FR PP POR, GD FLUSH CUT THRU TO FR STRONG MLKY BLUE STREAM CUT IN 30%, I OIL ODOR

3331' LS- CRM LT TN TO TN STAIN IN 35%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT IP, TR IMBD FOSS FRAGS IP, SLI TR IMBD OOL IP, DLL TO BRIT YEL FLO IN 10%, V/SLI TR PR PP POR, PR FLUSH CUT THRU TO PR STREAM CUT IN 5%, NO ODOR

3351' LS- CRM LT TN TO TN STAIN IN 40%, HD DNS TO BRITT, FN XLN TO REXLN MTRX THRU, TR SUCRO TXT SCAT IP, IMBD CALC XLS SCAT IP, TR IMBD OOL IP, V/SLI TR SFT WHT CHLK, DLL TO GLD YEL FLO IN 20%, TR FR PP POR, GD FLUSH CUT THRU TO FR STRONG MLKY BLUE STREAM CUT IN 20%, FR TO TR GD OIL ODOR, LT BRN STAIN ON DISH

3360' LS- CRM BUFF LT TN TO TN STAIN IN 50%, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX THRU, IMBD CALC XLS SCAT IP, TR FRM TO SFT WHT CHLK SCAT IP, IMBD FOSS FRAGS IP, TR DISS PYR IMBD THRU, GLD TO BRIT YEL FLO IN 30%, TR FR PP POR, GD FLUSH CUT THRU TO GD STRONG MLKY BLUE STREAM CUT IN 50%, GD OIL ODOR, BRN STAIN ON DISH

3378' LS- CRM TN TO TR DK TN, STAIN IN 70%, LIVE OIL IN 15%, HD DI TO BRITT, FN XLN TO REXLN MTRX SCAT IP, IMBD CALC XLS IP, V/SLI TR SFT WHT CHLK, SLI TR IMBD OOL SCAT THRU, GLD FLO THRU TO TR BRIT YEL FLO IN 30%, TR FR OOLMLD TO TR PR INTR-XLN POR, GD INST FLUSH CUT THRU, TO GD STRONG MLKY BLUE STREAM CUT IN 70%, GD OIL ODOR, BRN STAIN ON DISH

3396' LS- CRM LT TN TO TN, STAIN IN 10%, HD DNS TO BRITT, FN XLN TO REXLN MTRX SCAT IP, TR SUCRO TXT, IMBD CALC XLS SCAT THRU, TR IMBD FOSS FRAGS IP, V/SLI TR IMBD OOL SCAT IP, DLL TO TR BRIT YEL IN 30%, TR PR TO FR INTR-XLN POR, PR FLUSH CUT THRU TO FR STRONG MLKY BLUE CUT IN 30%, PR OIL ODOR, V/SLI TR LT TN STAIN ON DISH

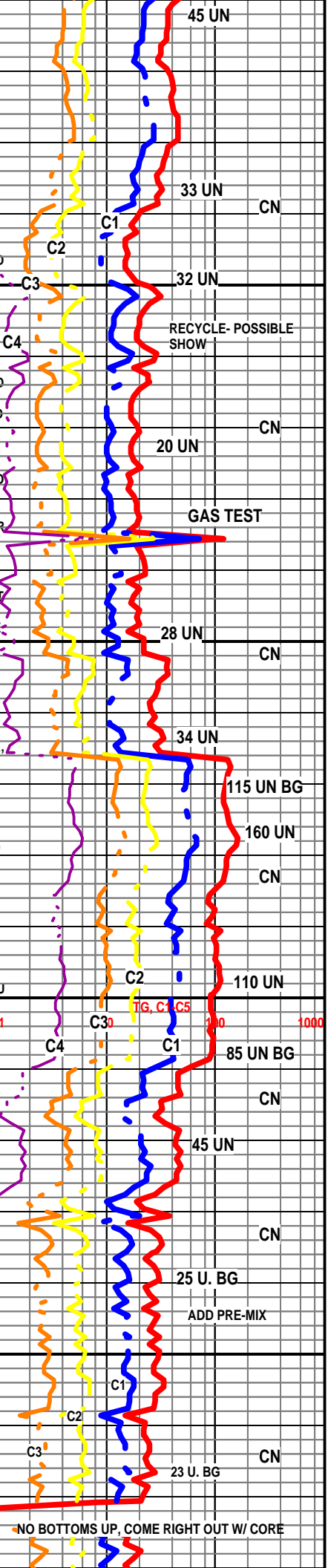
START CORING @ 3:25 PM 5/06/2011 AT 3414'

12:01 AM 5/07/2011 @ 3431'

WOB 10K  
 RPM 60  
 WT 9.1  
 VIS 52  
 PP 850

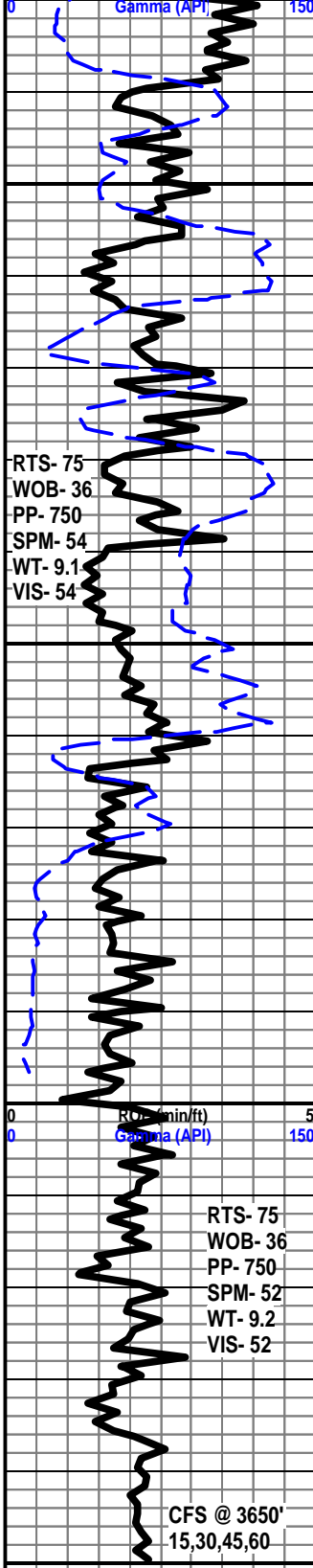
CHAIN OUT W/ CORE

CORE TD AT 12:53 PM 5/07/2011 AT 3474'



NO BOTTOMS UP, COME RIGHT OUT W/ CORE

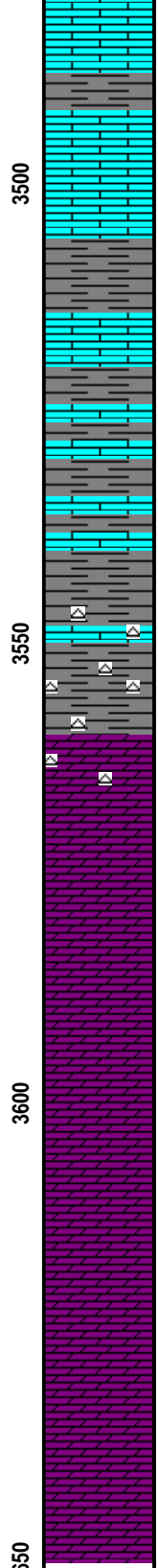




RTS- 75  
WOB- 36  
PP- 750  
SPM- 54  
WT- 9.1  
VIS- 54

RTS- 75  
WOB- 36  
PP- 750  
SPM- 52  
WT- 9.2  
VIS- 52

CFS @ 3650'  
15,30,45,60



LS- CRM LT TN TO TN, HD DNS TO BRITT, FN XLN TO REXLN MTRX, IMBD CALC XLS SCAT THRU, TR IMBD FOSS FRAGS IP, TR IMBD GRN SHALE, DLL TO TR GLD YEL IN 10%, TR FR INTR-XLN TO SLI TR PP POR, NO VIS CUT, NO VIS SHOW

**BKC 3507' -1521'**

SH- GRY TO DK GRY, FRM TO TR SFT, SMTH BLKY  
LS- CRM LT TN TO TN, HD DNS TO BRITT, FN TO MD XLN TO REXLN MTRX, IMBD CALC XLS SCAT THRU, TR IMBD FOSS FRAGS IP, TR IMBD SHALE SCAT IP, DLL TO TR GLD YEL IN 10%, TR FR INTR-XLN TO SLI TR PP POR, NO VIS CUT, NO VIS SHOW

SH- GRY DK GRY REDISH BRN, SFT GUMMY THRU, BLKY TR PYR, SLI LIMY

SH- GRY DK GRY REDISH BRN, SFT GUMMY THRU, BLKY TR PYR, SLI LIMY, CHRT SCAT THRU

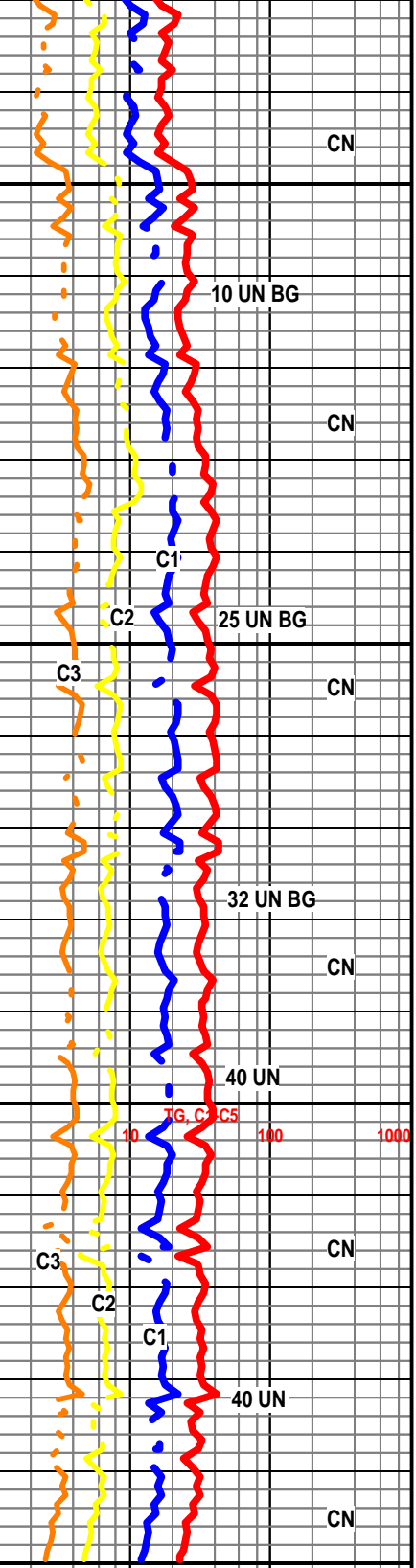
**ARBUCKLE 3561' -1575'**

3563' 3574' DOL- OFF WHT WHT LT TN TO TN, HD DNS TO BRITT, V/FN TO FN XLN, REXLN MTRX THRU, IMBD ABDT SM S/RND DOL GRNS, TR WHTISH PINK CHRT SCAT IP, BRIT GLD FLO IN 40%, FR INTR-XLN POR, GD INST FLUSH CUT THRU, TO FR STRONG MLKY BLUE CU IN 30%, PR OIL ODOR, TR LT BRN STAIN ON DISH

3582' DOL- OFF WHT CRM LT TN TO TN, HD DNS TO BRITT, FN XLN, REXLN MTRX THRU, IMBD SM ANG DOL GRNS, TR WHTISH CHRT SCAT IP, DLL GLD FLO TR SCAT BRITT FLO 10%, PR INTR-XLN TO TR PR PP POR, FR FLUSH CUT, TO PR FR MLKY BLUE CUT IN 5%

DOL- WHT CRM LT TN, HD DNS TO BRITT, FN XLN, REXLN MTRX, IMBD SM ANG DOL GRNS, DLL GLD FLO TR SCAT BRITT FLO 15%, NO VIS POR, NO VIS CUT NO VIS SHOW

DOL- WHT CRM, HD DNS TO BRITT, FN TO MD XLN, REXLN MTRX, IMBD FN ANG TO S/RND DOL GRNS, DLL GLD FLO TR SCAT BRITT FLO 15%, NO VIS POR, NO VIS CUT NO VIS SHOW



10 UN BG

25 UN BG

32 UN BG

40 UN

40 UN

RTD 3650'  
CFS/CTCH TOTAL  
1.5 HRS  
TOH FOR LOGS

TD 3650' @ 2:30 AM 06/08/2011

LOGS BY WEATHERFORD

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTHTECH

LOG COMPLETED BY JASON MARSHALL